Message

This “Message” volume describes the content of the message which occurs at the time of the subsystem failure.

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Chapter 1. Before Starting Trouble Analysis

A message reports the contents of the failures detected during the operation.
The failures detected during operation after the main switch of this unit is turned on and the state of the unit are reported.

The composition and description contents of each message are as follows.

① The following messages are indicated.
- CUDG detected message ···: 018××××× ("Chapter 2. CUDG Detected Messages" (MSG 02-0000))
- Failure messages ·····: H××××× · ("Chapter 3. Failure Messages" (MSG 03-0000))
- Progress messages ·····: I××××× · ("Chapter 4. Progress Messages" (MSG 04-0000))
- Flash detected messages···: R××××× · ("Chapter 5. Flash Detected Messages" (MSG 05-0000))
- Warning messages·····: W××××× · ("Chapter 6. Warning Messages" (MSG 06-0000))
- WEB messages ·····: "Chapter 7. Web Error Messages" (MSG 07-0000)
- Hitachi Storage Navigator Modular 2 messages : "Chapter 8. Hitachi Storage Navigator Modular 2 Error Messages" (MSG 08-0000)
- Sense Data·····: "Chapter 9. Failure Analysis by Sense Data" (MSG 09-0000)

② Message text : Message text is indicated.

③ Description : Contents of failure are described concretely.

④ Collection of errors

	Collect the error	
	Simple Trace	

Simple trace · : Collect Simple Trace (Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040))
CTL Trace ···· : Collect CTL Alarm Trace (Troubleshooting "7.4 Collecting CTL Alarm Trace" (TRBL 07-0090))
Full Dump····· : Collect Full Dump (Troubleshooting "7.5 Collecting Full Dump" (TRBL 07-0140))
Space····· : Does not need to be collected.

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⑤ Recovery methods ‥ : How to recover from failure is indicated.
①,②… ･: Recovery method number.
When "-" is written here, no recovery operation is required.
When another message other than this message is displayed, execute that trouble analysis also.
Because the status where the array subsystem is being started is in the middle of the transition to the status of the subsystem power turned on (Ready status) from the status of the subsystem power turned off, do not perform the recovery work which affects the operation of the array subsystem while the array subsystem is being started.
Also, the setting function or the reference function using the Hitachi Storage Navigator Modular 2 cannot be executed to the array subsystem which is being started.

⑥ Reference page‥ : No. of page in which the recovery methods are described.

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Chapter 2. CUDG Detected Messages

Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01**xx99	DCTL hard error [OWN_CTL]	A hardware failure of the data transfer control LSI (DCTL) occurred. xx : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01**xx9A	DCTL hard error [ALT_CTL]	A hardware failure of the data transfer control LSI (DCTL) occurred. xx : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the other Control Unit. (The replacement cannot be done when the subsystem power is on.)	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01**xx9C	CACHE#0/2 ECC uncorrectable error [ALT_CTL]	An ECC uncorrectable error occurred in the Cache Memory in DIMM Slot #0 and Slot #2 of the remote Control Unit. xx : Error code	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit. ④If not recovered yet, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01**xx9D	CACHE#1/3 ECC uncorrectable error [ALT_CTL]	An ECC uncorrectable error occurred in the Cache Memory in DIMM Slot #1 and Slot #3 of the remote Control Unit. xx : Error code	Full Dump		
01**xx9E	CACHE#0/2 ECC correctable error [ALT_CTL]	An ECC correctable error occurred in the Cache Memory in DIMM Slot #0 and Slot #2 of the remote Control Unit. xx : Error code	Full Dump		
01**xx9F	CACHE#1/3 ECC correctable error [ALT_CTL]	An ECC correctable error occurred in the Cache Memory in DIMM Slot #01 and Slot #3 of the remote Control Unit. xx : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01**yyAx	CACHE#x ECC uncorrectable error [OWN_CTL]	An ECC uncorrectable error occurred in the Cache Memoery of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Error code	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
	CACHE#x ECC correctable error [OWN_CTL]	An ECC correctable error occurred in the Cache Memoery of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Error code	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
	CACHE#x ECC uncorrectable error [ALT_CTL]	An ECC uncorrectable error occurred in the Cache Memory in DIMM Slot #x of the remote Control Unit. x : 8 : Slot #0, 9 : Slot #1, A : Slot #2, B : Slot #3 yy : Error code	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
	CACHE#x ECC correctable error [ALT_CTL]	An ECC correctable error occurred in the Cache Memory in DIMM Slot #x of the remote Control Unit. x : C : Slot #0, D : Slot #1, E : Slot #2, F : Slot #3 yy : Error code	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④If not recovered yet, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01100001	BIOS version compare error [OWN_CTL]	In BIOS MODE check of BIOS Function Check, the expected value of BIOS Version and the Read value were inconsistent.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01100101	BIOS memory size compare error [OWN_CTL]	In MEMORY SIZE check of BIOS Function Check, the expected value of the memory size and the Read value of the memory area size recognized by BIOS were inconsistent.	Full Dump		
01100201	BIOS journal sequence compare error [OWN_CTL]	In BIOS Journal check of BIOS Function Check, the expected value of the Post processing of BIOS and the Read history were inconsistent.	Full Dump		
01100301	BIOS pci configuration venderid compare error [OWN_CTL]	In PCI-Configuration check of BIOS Function Check, the expected value of the VenderID in the PCI Configuration area and the Read value were inconsistent.	Full Dump		
01100501	BIOS register check msr compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the MSR register and the Read value were inconsistent.	Full Dump		
01100602	BIOS register check local apic compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the LocalAPIC register and the Read value were inconsistent.	Full Dump		
01100703	BIOS register check control compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the control register and the Read value were inconsistent.	Full Dump		
01100804	BIOS register check control edma compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the control register EDMA and the Read value were inconsistent.	Full Dump		
01100905	BIOS register check base address register compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the BASE address register and the Read value were inconsistent.	Full Dump		
01100A06	BIOS register check base address register edma compare error [OWN_CTL]	In Main Register Value check of BIOS Function Check, the expected value of the BASE address register EDMA and the Read value were inconsistent.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0110xxyy	BIOS Function Check error [OWN_CTL]	An illegal status occurred in BIOS Function Check. xx : Diagnosis part yy : Error code	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01110101	GPIO function check error [OWN_CTL]	A failure was detected in Read of LayoutRevisionFlag connected to the GPIO area of GPIO Function Check.	Full Dump		
0111xxyy	GPIO Function Check error [OWN_CTL]	An illegal status occurred in GPIO Function Check. xx : Diagnosis part yy : Error code	Full Dump		
01120111	SMBUS function check chset deverr [OWN_CTL]	In SM-Bus Function Check, DEV ERR was detected in HostStatusRegister at the time of CH SET.	Full Dump		
01120112	SMBUS function check chset rty ovr [OWN_CTL]	In SM-Bus Function Check, the number of times to detect HOST BUSY/INTR in HostStatusRegister exceeded the specified value (65535 × 3) at the time of CH SET.	Full Dump		
01120121	SMBUS function check chunset deverr [OWN_CTL]	In SM-Bus Function Check, DEV ERR was detected in HostStatusRegister at the time of CH UNSET.	Full Dump		
01120122	SMBUS function check chunset rty ovr [OWN_CTL]	In SM-Bus Function Check, the number of times to detect HOST BUSY/INTR in HostStatusRegister exceeded the specified value (65535 × 3) at the time of CH UNSET.	Full Dump		
011201xx	SMBUS Function Check error [OWN_CTL]	An illegal status occurred in SM-Bus Function Function Check. xx : Error code	Full Dump		
01120341	SMBUS CSDS Install err [OWN_CTL]	The invalid CSDS installation status was detected by SM-Bus Function Check.	Full Dump		
011203xx	SMBUS CSDS access err [OWN_CTL]	An illegal status occurred in SM-Bus Function Check at the CSDS installation status check. xx : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01122031	SMBUS CACHE0 access read err [OWN_CTL]	In SM-Bus Function Check, DEV ERR was detected at the time of READ check of CACHE0.	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01122032	SMBUS CACHE0 access rty ovr [OWN_CTL]	In SM-Bus Function Check, the number of times to detect HOST BUSY/INTR in HostStatusRegister exceeded the specified value (65535 × 3) at the time of READ check of CACHE0.	Full Dump		
011220xx	SMBUS CACHE0 access err [OWN_CTL]	An illegal status occurred in SM-Bus Function Check at READ CHECK of CACHE0. xx : Error code	Full Dump		
01122131	SMBUS CACHE1 access read err [OWN_CTL]	In SM-Bus Function Check, DEV ERR was detected at the time of READ check of CACHE1.	Full Dump		
01122132	SMBUS CACHE1 access rty ovr [OWN_CTL]	In SM-Bus Function Check, the number of times to detect HOST BUSY/INTR in HostStatusRegister exceeded the specified value (65535 × 3) at the time of READ check of CACHE1.	Full Dump		
011221xx	SMBUS CACHE1 access err [OWN_CTL]	An illegal status occurred in SM-Bus Function Check at READ CHECK of CACHE1. xx : Error code	Full Dump		
01130101	PLD function check compare error [OWN_CTL]	In Read check of GPIO area of PLD Function Check, the expected value of Expand GPIO area and the Read value were inconsistent.	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0113xxyy	PLD Function Check error [OWN_CTL]	An illegal status occurred in PLD Function Check. xx : Diagnosis part yy : Error code	Full Dump		
01140101	RTC memory check compare error [OWN_CTL]	In Write/Read Compare check of ExpandRTC (SRAM) area of RTC Memory Check, the expected value and the Read value were inconsistent.	Full Dump		
0114xxyy	RTC Check error [OWN_CTL]	An illegal status occurred in RTC Memory Check. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01150101	LAN CONTROL function check venderid read compare error [OWN_CTL]	In VenderID check (Configuration Check) of LAN Control Function Check, the expected value and the Read value were inconsistent.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01150201	LAN CONTROL function check eeprom read error [OWN_CTL]	A failure was detected in EEPROM Read check (Memory Check) of LAN Control Function Check.	Full Dump		
01150202	LAN CONTROL function check eeprom read compare error [OWN_CTL]	In EEPROM Read check (Memory Check) of LAN Control Function Check, the expected value and the Read value were inconsistent.	Full Dump		
0115xxyy	LAN Control Function Check error [OWN_CTL]	An illegal status occurred in LAN Control Function Check. xx : Diagnosis part yy : Error code	Full Dump		
01160101	FLASHMEMORY INS sum check compare error [OWN_CTL]	In INS Part SUM Value check of FlashMemory, the expected value and the Read value were inconsistent.	Full Dump		
0116xxyy	FM1 INS error [OWN_CTL]	An illegal status occurred in the INS part SUM value check of FlashMemory. xx : Diagnosis part yy : Error code	Full Dump		
01200101	CSDS 4byte data compare error [OWN_CTL]	In 4byte R/W Test of the local memory (CSDS), the Write value and the Read value were inconsistent.	Full Dump		
01200201	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #0) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×5555 5555 5555 5555).	Full Dump		
01200202	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #0) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×5555 5555 AAAA AAAA).	Full Dump		
01200203	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #0) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×FFFF FFFF AAAA AAAA).	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01200301	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #1) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×5555 5555 5555 5555).	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01200302	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #1) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×5555 5555 AAAA AAAA).	Full Dump		
01200303	CSDS write mask data compare error [OWN_CTL]	In Write Mask check (SLOT #1) of the local memory (CSDS), the Write value and the Read value were inconsistent (write date pattern = 0×FFFF FFFF AAAA AAAA).	Full Dump		
0120xxyy	CSDS2 error [OWN_CTL]	An illegal status occurred in the local memory (CSDS) check. xx : Diagnosis part yy : Error code	Full Dump		
013000xx	MCTL error [OWN_CTL]	An illegal status occurred in the MCTL register read/write check of the MCTL diagnosis. xx : Error code	Full Dump		
013000Ex	MCTL error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
01300101	MCTL register data compare error [OWN_CTL]	In MCTL Register Read/Write check of the MCTL diagnosis, the Write value and the Read value were inconsistent.	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01310100	CTC CH0 count error [OWN_CTL]	In CTC Count check of the CTC diagnosis, the count value of CTC CH0 was out of the range of the expected value.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01310101	CTC CH1 count error [OWN_CTL]	In CTC Count check of the CTC diagnosis, the count value of CTC CH1 was out of the range of the expected value.	Full Dump		
01310102	CTC CH2 count error [OWN_CTL]	In CTC Count check of the CTC diagnosis, the count value of CTC CH2 was out of the range of the expected value.	Full Dump		
01310103	CTC watchdogtimer #0 count error [OWN_CTL]	In CTC Count check of the CTC diagnosis, the count value of WatchDogTime #0 was out of the range of the expected value.	Full Dump		
01310104	CTC watchdogtimer#1 count error [OWN_CTL]	In CTC Count check of the CTC diagnosis, the count value of WatchDogTime #1 was out of the range of the expected value.	Full Dump		
013101FF	CTC compare timer count error [OWN_CTL]	The count of the timer for comparison at the time of the CTC diagnosis was illegal.	Full Dump		
013100xx	CTC error [OWN_CTL]	An illegal status occurred in the CTC count check of the CTC diagnosis. xx : Error code	Full Dump		
013100Ex	CTC error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③ If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
013201xx	MCTL Force error [OWN_CTL]	An illegal status occurred in MCTL Force Test in the data transfer control LSI. xx : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
013201Ex	MCTL Force error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
01320201	MCTL Force error undetected [OWN_CTL]	In MCTL Force Test, the expected ErrorForce does not occur.	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01320202	MCTL Force error uncleared [OWN_CTL]	In MCTL Force Test, the expected ErrorReset is not executed.	Full Dump		
0133xxyy	DCTL1 error [OWN_CTL]	An illegal status occurred in the register read/write check of the DCTL1 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0133yyEx	DCTL1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0134xxyy	DCTL2 error [OWN_CTL]	An illegal status occurred in the register read/write check of the DCTL2 diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0134yyEx	DCTL2 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
013501xx	DCTL Force1 error [OWN_CTL]	An illegal status occurred in Force Test1 in the data transfer control LSI. xx : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
013501Ex	DCTL Force1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01350201	DCTL Force1 error undetected [OWN_CTL]	In MP Force Test1, the expected ErrorForce does not occur.	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01350202	DCTL Force1 error uncleared [OWN_CTL]	In MP Force Test1, the expected ErrorReset is not executed.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0136xxyy	MSI error [OWN_CTL]	An illegal status occurred in the MSI diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01404101	DUAL register data compare error [ALT_CTL]	The Write value and Read value were mismatched in the remote Dual Register R/W Test of the data transfer control LSI (DCTL).	Full Dump	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0140xxyy	DUAL1 error [OWN_CTL] DUAL1 error [ALT_CTL]	An illegal status occurred in the DUAL1 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0140yyEx	DUAL1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump		
01414201	DUAL register data compare error [ALT_CTL]	The Write value and Read value were mismatched in the remote Dual Register R/W Test of the data transfer control LSI (DCTL).	Full Dump	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0141xxyy	DUAL2 error [OWN_CTL] DUAL2 error [ALT_CTL]	An illegal status occurred in the DUAL2 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0141yyEx	DUAL2 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump		
01424301	CACHE#0 data compare error [ALT_CTL]	The Write value and Read Value were mismatched in the R/W Test for the Cache Memory in DIMM Slot #0 of the remote Control Unit.	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit. ④If not recovered yet, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01424311	CACHE#1 data compare error [ALT_CTL]	The Write value and Read Value were mismatched in the R/W Test for the Cache Memory in DIMM Slot #1 of the remote Control Unit.	Full Dump		
01424321	CACHE#2 data compare error [ALT_CTL]	The Write value and Read Value were mismatched in the R/W Test for the Cache Memory in DIMM Slot #2 of the remote Control Unit.	Full Dump		
01424331	CACHE#3 data compare error [ALT_CTL]	The Write value and Read Value were mismatched in the R/W Test for the Cache Memory in DIMM Slot #3 of the remote Control Unit.	Full Dump		
01424402	MDMA transfer data compare error [ALT_CTL]	The data transferred by the MDMA transfer from the Cache Memory of the local Control Unit to CS/DS of the remote Control Unit and the transfer-source data were mismatched.	Full Dump	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0142xxyy	DUAL3 error [OWN_CTL] DUAL3 error [ALT_CTL]	An illegal status occurred in the DUAL3 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0142yyEx	DUAL3 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01434501	DUAL-M error force check NG [OWN_CTL]	An expected error did not occur in the local Dual Force Test of the data transfer control LSI (DCTL).	Full Dump	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01434502	DUAL-M error force check NG [OWN_CTL]	An illegal status was detected in the local Dual Force Test of the data transfer control LSI (DCTL).	Full Dump		
01434601	DUAL-S error force check NG [ALT_CTL]	An expected error did not occur in the remote Dual MPU Access Force Test of the data transfer control LSI (DCTL).	Full Dump		
01434602	DUAL-S error force check NG [ALT_CTL]	An illegal status was detected in the remote Dual MPU Access Force Test of the data transfer control LSI (DCTL).	Full Dump		
01434701	DUAL-S error force check NG [ALT_CTL]	An expected error did not occur in the remote Dual DMA Force Test of the data transfer control LSI (DCTL).	Full Dump		
01434702	DUAL-S error force check NG [ALT_CTL]	An illegal status was detected in the remote Dual DMA Force Test of the data transfer control LSI (DCTL).	Full Dump		
0143xxyy	DUAL Force error [OWN_CTL] DUAL Force error [ALT_CTL]	In Local Dual Force Test of Data Transfer Control LSI, the expected ErrorForce does not occur. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01444802	DRR transfer data compare error [ALT_CTL]	The data transferred by the DRR transfer from the Cache Memory of the local Control Unit to the Cache Memory of the remote Control Unit and the transfer-source data were mismatched.	Full Dump	① Replace the Control Unit whose ALM LED is on. ② If not recovered, replace the other Control Unit (you cannot replace it with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
014449xx	DCTL cross transfer data compare error [ALT_CTL]	The data transferred by the cross transfer between the Cache Memory of the local Control Unit and SAS-CTL of the remote Control Unit and the transfer-source data were mismatched. xx : Error code	Full Dump		
0144xxyy	DUAL4 error [OWN_CTL] DUAL4 error [ALT_CTL]	An illegal status occurred in the DUAL4 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0144yyEx	DUAL4 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3 yy : Diagnosis part	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③ If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3 yy : Diagnosis part	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
015011Ex	Data Transfer1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
015032Ex	Data Transfer1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
015041Ex	Data Transfer1 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
0150xxyy	Data Transfer1 error [OWN_CTL]	An illegal status was detected in the data transfer 1 diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
015111Ex	Data Transfer2 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01512101	DBV regwr1 data compare error [OWN_CTL]	A compare check error was detected in the read check after performing the register write once in the DBV part register read/write test of the DCTL DBV part diagnosis items.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01512102	DBV regwr2 data compare error [OWN_CTL]	A compare check error was detected in the read check ① after performing the register write three consecutive times in the DBV part register read/write test of the DCTL DBV part diagnosis items.	Full Dump		
01512103	DBV regwr3 data compare error [OWN_CTL]	A compare check error was detected in the read check ② after performing the register write three consecutive times in the DBV part register read/write test of the DCTL DBV part diagnosis items.	Full Dump		
01512111	DBV sumchk error [OWN_CTL]	An illegal status was detected in the normal check when performing the DBV error check in the DBV part sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump		
01512121	DBV magicnumchk error undetected [OWN_CTL]	An illegal status was detected in the magic number check when performing the DBV error check in the DBV part sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump		
01512122	DBV magicnumchk error clear error [OWN_CTL]	An illegal status was detected in the reset processing of the error status detected in the magic number check when performing the DBV error check in the DBV part sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump		
01512131	DBV blocknumchk error undetected [OWN_CTL]	An illegal status was detected in the block number check when performing the DBV error check in the DBV part sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01512132	DBV blocknumchk error clear error [OWN_CTL]	An illegal status was detected in the reset processing of the error status detected in the block number check when performing the DBV error check in the DBV part sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01512141	DBV multi sumchk error [OWN_CTL]	An illegal status was detected in the DBV part multiple block sum check function diagnosis of the DCTL DBV part diagnosis items.	Full Dump		
015121Ex	Data Transfer2 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0151xxyy	Data Transfer2 error [OWN_CTL]	An illegal status was detected in the data transfer 2 diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
015221Ex	DCTL Force2 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
				③If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
0152xxyy	DCTL Force2 error [OWN_CTL]	In Data Transfer LSI Force Test 2, the expected ErrorForce does not occur. xx : Diagnosis part yy : Error code	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
015330xx	DCTL DBV Force error [OWN_CTL]	An unexpected error status was detected in DBV Force Test of Data Transfer Control LSI (DCTL). xx : Error code	Full Dump		
01533101	DCTL DBV Force error undetected [OWN_CTL]	In DBV Force Test of Data Transfer Control LSI (DCTL), the expected ErrorForce does not occur.	Full Dump		
01533102	DCTL DBV Force error uncleared [OWN_CTL]	In DBV Force Test of Data Transfer Control LSI (DCTL), the expected ErrorForce does not occur.	Full Dump		
015340xx	DCTL CmdBridgeMP Force error [OWN_CTL]	An unexpected error status was detected in CmdBridgem (MP) Force Test of Data Transfer Control LSI (DCTL). xx : Error code	Full Dump		
01534101	DCTL CmdBridgeMP error undetected [OWN_CTL]	In CmdBridgem (MP) Force Test of Data Transfer Control LSI (DCTL), the expected ErrorForce does not occur.	Full Dump		
01534102	DCTL CmdBridgeMP error uncleared [OWN_CTL]	In CmdBridgem (MP) Force Test of Data Transfer Control LSI (DCTL), the expected ErrorForce does not occur.	Full Dump		
0153xxyy	DCTL Force3 error [OWN_CTL]	In Data Transfer LSI Force Test 3, the expected ErrorForce does not occur. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01603001	CACHE3 data line error [OWN_CTL]	In DIMM Slot #0_SLOT #0 Data-Line Test_R/W Compare check of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump	①Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ②If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
016030Ex	CACHE3 data line error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
01603101	CACHE3 address line error [OWN_CTL]	In Address Line Test for DIMM Slot #0 and Slot #1_Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump		
016031Ex	CACHE3 address line error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
01603201	CACHE3 data compare error [OWN_CTL]	In R/W Test for DIMM Slot #0 and Slot #1_Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump		
016032Ex	CACHE3 data compare error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01603301	CACHE3 data write mask compare error [OWN_CTL]	In Data Write Mask R/W Test for DIMM Slot #0 and Slot #1_Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
016033Ex	CACHE3 data write mask compare error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	③ If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01603401	CACHE3 data line error [OWN_CTL]	In DIMM Slot #1_SLOT #1 Data-Line Test_R/W Compare check of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump		
016034Ex	CACHE3 data line error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump		
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump		
01604001	CACHE3 rmw address switch1 error [OWN_CTL]	In Something Written in ① check with RMW Address Switching R/W Test_All RMW Status for Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump		
01604002	CACHE3 rmw address switch2 error [OWN_CTL]	In Previous Data Seen as Half check with RMW Address Switching R/W Test_DMY Available Status for Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01604003	CACHE3 rmw address switch3 error [OWN_CTL]	In Visibility check in RMW Address Switching R/W Test_RMW Area for Cache Memory of the CACHE3 diagnosis, the Write value and the Read value were inconsistent.	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
016040Ex	CACHE3 error [OWN_CTL]	The ECC uncorrectable error occurred in Cache Memory of DIMM Slot #x. x : 0 : Slot #0, 1 : Slot #1, 2 : Slot #2, 3 : Slot #3	Full Dump	② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	
		The ECC correctable error occurred in Cache Memory of DIMM Slot #x. x : 4 : Slot #0, 5 : Slot #1, 6 : Slot #2, 7 : Slot #3	Full Dump	③ If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0160xxyy	CACHE3 error [OWN_CTL]	An illegal status occurred in DIMM Slot #0/1 of the CACHE3 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0161xxyy	CACHE1 error [OWN_CTL]	An illegal status occurred in the ECC check of CACHE SLOT #0/1. xx : Diagnosis part yy : Error code	Full Dump		
0162xxyy	CACHE3 check error [OWN_CTL]	An illegal status was detected in the CACHE3 CHECK diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0163xxyy	CACHE2 error [OWN_CTL]	An illegal status detected in DIMM Slot #2/3 of the CACHE2 diagnosis. xx : Diagnosis part yy : Error code	Full Dump		
0164xxyy	CACHE4 error [OWN_CTL]	An illegal status occurred in the ECC check of CACHE SLOT #2/3. xx : Diagnosis part yy : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01653001	CACHE#0 data line error [OWN_CTL]	The Write value and Read value were mismatched by Data Line Test for the Cache Memory of DIMM Slot #0.	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

016531x2	CACHE#x address line error [OWN_CTL]	The Write value and Read value were mismatched by Address Line Test for the Cache Memory of DIMM Slot #x.
		x = 0 : Slot #0, 1 : Slot #1
			Full Dump		

016532x2	CACHE#x data compare error [OWN_CTL]	The Write value and Read value were mismatched by R/W Test for the Cache Memory of DIMM Slot #x.
		x = 0 : Slot #0, 1 : Slot #1
			Full Dump		

016533x2	CACHE#x data compare error [OWN_CTL]	The Write value and Read value were mismatched by Data Write Mask Test for the Cache Memory of DIMM Slot #x.
		x = 0 : Slot #0, 1 : Slot #1
			Full Dump	③ If not recovered, replace Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

01653401	CACHE#1 data line error [OWN_CTL]	The Write value and Read value were mismatched by Data Line Test for the Cache Memory of DIMM Slot #1.	Full Dump		
016540xx	CACHE#0 data compare error [OWN_CTL]	The Write value and Read value were mismatched by RMW Address Switching R/W Test for the Cache Memory of DIMM Slot #0. xx : Error code	Full Dump		

016541x1	CACHE#x size error [OWN_CTL]	The size of the Cache Memory of DIMM Slot #x was the one that the data transfer control LSI (DCTL) cannot control.
		x = 0 : Slot #0, 1 : Slot #1
			Full Dump		

016620xx	CACHE#0 ECC data line error [OWN_CTL]	The Write value and Read value were mismatched by ECC Data Line Test for the Cache Memory of DIMM Slot #0. xx : Error code	Full Dump		
016621xx	CACHE#1 ECC data line error [OWN_CTL]	The Write value and Read value were mismatched by ECC Data Line Test for the Cache Memory of DIMM Slot #1. xx : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
016630xx	CACHE#0 ECC circuit error [OWN_CTL]	The expected values were mismatched by ECC Circuit Test for the Cache Memory of DIMM Slot #0. xx : Error code	Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x. ② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot. ③ If not recovered, replace Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
016631xx	CACHE#1 ECC circuit error [OWN_CTL]	The expected values were mismatched by ECC Circuit Test for the Cache Memory of DIMM Slot #1. xx : Error code	Full Dump		
016632xx	MDMA transfer error [OWN_CTL]	A transfer time-out was detected by the MDMA transfer. xx : Error code	Full Dump		
01672001	CACHE#0/1 size mismatch [OWN_CTL]	The sizes of SLOT #0 and SLOT #1 are mismatched by the Cache pair installation check.	Full Dump		
01672002	CACHE#2/3 size mismatch [OWN_CTL]	The sizes of SLOT #2 and SLOT #3 are mismatched by the Cache pair installation check.	Full Dump		
01683801	CACHE#2 data line error [OWN_CTL]	The Write value and Read value were mismatched by Data Line Test for the Cache Memory of DIMM Slot #2.	Full Dump		

016839x2	CACHE#x address line error [OWN_CTL]	The Write value and Read value were mismatched by Address Line Test for the Cache Memory of DIMM Slot #x.
		x = 2 :Slot #2, 3 : Slot #3
			Full Dump		

01683Ax2	CACHE#x data compare error [OWN_CTL]	The Write value and Read value were mismatched by R/W Test for the Cache Memory of DIMM Slot #x.
		x = 2 :Slot #2, 3 : Slot #3
			Full Dump		

01683Bx2	CACHE#x data compare error [OWN_CTL]	The Write value and Read value were mismatched by Data Write Mask Test for the Cache Memory of DIMM Slot #x.
		x = 2 :Slot #2, 3 : Slot #3
			Full Dump		

01683C01	CACHE#3 data line error [OWN_CTL]	The Write value and Read value were mismatched by Data Line Test for the Cache Memory of DIMM Slot #3.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page

016842x2	CACHE#x size error [OWN_CTL]	The size of the Cache Memory of DIMM Slot #x was the one that the data transfer control LSI (DCTL) cannot control.
		x = 2 :Slot #2, 3 : Slot #3
			Full Dump	① Check if the Cache Unit is installed in the Cache Slot #x of the Control Unit whose ALM LED is on. If not, install the Cache Unit in the Cache memory slot #x.
				② If the Cache Unit is firmly installed in the Cache memory slot displayed in this message, replace the Cache Unit. If not, install the Cache Unit firmly in the Cache memory slot.
				③ If not recovered, replace Control Unit.
					Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
					Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

016843x1	CACHE#x unsupported [OWN_CTL]	The unique code of the Cache Memory of DIMM Slot #x was invalid.
		x = 0 : Slot #0, 1 : Slot #1, 2 :Slot #2, 3 : Slot #3
			Full Dump		

016843x2	CACHE#x size error [OWN_CTL]	The actual size of the Cache Memory of DIMM Slot #x and the size information written in the Cache Memory are mismatched.
		x = 0 : Slot #0, 1 : Slot #1, 2 :Slot #2, 3 : Slot #3
			Full Dump		

016843x3	CACHE#x unsupported [OWN_CTL]	The Cache Memory capacity of DIMM Slot #x is unsupported.
		x = 0 : Slot #0, 1 : Slot #1, 2 :Slot #2, 3 : Slot #3
			Full Dump		

016922xx	CACHE#2 ECC data line error [OWN_CTL]	The Write value and Read value were mismatched by ECC Data Line Test for the Cache Memory of DIMM Slot #2. xx : Error code	Full Dump		
016923xx	CACHE#3 ECC data line error [OWN_CTL]	The Write value and Read value were mismatched by ECC Data Line Test for the Cache Memory of DIMM Slot #3. xx : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
017000xx	SAS-CTL error [OWN_CTL]	An illegal status occurred in the SAS-CTL diagnosis. xx : Error code	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
017001xx	SAS-CTL#0core0 boot check error [OWN_CTL]	An error occurred in the boot check of SAS-CTL #0 core0. xx : Error code	Full Dump		
017002xx	SAS-CTL#0core0-Expander Linkup error [OWN_CTL]	An error occurred in the Linkup check between SAS-CTL # 0 core0 and Expander. xx : Error code	Full Dump		
017004xx	SAS-CTL#0core0 RUN BIU DIAG64 command error [OWN_CTL]	An error occurred in the DMA transfer of SAS-CTL #0 core0. xx : Error code	Full Dump		
017005xx	SAS-CTL#0core0 Loopback error [OWN_CTL]	An error occurred in the internal Loopback of SAS-CTL #0 core0. xx : Error code	Full Dump		
017011xx	SAS-CTL#0core1 boot check error [OWN_CTL]	An error occurred in the boot check of SAS-CTL #0 core1. xx : Error code	Full Dump		
017014xx	SAS-CTL#0core1 RUN BIU DIAG64 command error [OWN_CTL]	An error occurred in the DMA transfer of SAS-CTL #0 core1. xx : Error code	Full Dump		
017015xx	SAS-CTL#0core1 Loopback error [OWN_CTL]	An error occurred in the internal Loopback of SAS-CTL #0 core1. xx : Error code	Full Dump		
017021xx	SAS-CTL#1core0 boot check error [OWN_CTL]	An error occurred in the boot check of SAS-CTL #1 core0. xx : Error code	Full Dump		
017024xx	SAS-CTL#1core0 RUN BIU DIAG64 command error [OWN_CTL]	An error occurred in the DMA transfer of SAS-CTL #1 core0. xx : Error code	Full Dump		
017025xx	SAS-CTL#1core0 Loopback error [OWN_CTL]	An error occurred in the internal Loopback of SAS-CTL #1 core0. xx : Error code	Full Dump		
017031xx	SAS-CTL#1core1 boot check error [OWN_CTL]	An error occurred in the boot check of SAS-CTL #1 core1. xx : Error code	Full Dump		
017034xx	SAS-CTL#1core1 RUN BIU DIAG64 command error [OWN_CTL]	An error occurred in the DMA transfer of SAS-CTL #1 core1. xx : Error code	Full Dump		
017035xx	SAS-CTL#1core1 Loopback error [OWN_CTL]	An error occurred in the internal Loopback of SAS-CTL #1 core1. xx : Error code	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
017107xx	Expander link reset error [OWN_CTL]	An error occurred in the link reset of Expander. xx : Error code	Full Dump	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
017108xx	SAS-CTL#0core0-Expander Loopback error [OWN_CTL]	An error occurred in Loopback between SAS-CTL #0 core0 and Expander. xx : Error code	Full Dump		
01710Axx	Expander-SAS-Buffer Loopback error [OWN_CTL]	An error occurred in Loopback between Expander and SAS-Buffer. xx : Error code	Full Dump		
01710Bxx	Expander Loopback error [OWN_CTL]	An error occurred in the internal Loopback of Expander. xx : Error code	Full Dump		
01710Cxx	Expander-Expander Loopback error [OWN_CTL]	An error occurred in Loopback between local Expander and remote Expander. xx : Error code	Full Dump		
01710Dxx	Expander-HDD/MINISAS connector Loopback error [OWN_CTL]	An error occurred in Loopback between Expander and HDD/MINISAS connector. xx : Error code	Full Dump		
017119xx	SAS-CTL#0core1-SAS-Buffer Loopback error [OWN_CTL]	An error occurred in Loopback between SAS-CTL #0 core1 and SAS-Buffer. xx : Error code	Full Dump		
017129xx	SAS-CTL#1core0-SAS-Buffer Loopback error [OWN_CTL]	An error occurred in Loopback between SAS-CTL #1 core0 and SAS-Buffer. xx : Error code	Full Dump		
017139xx	SAS-CTL#1core1-SAS-Buffer Loopback error [OWN_CTL]	An error occurred in Loopback between SAS-CTL #1 core1 and SAS-Buffer. xx : Error code	Full Dump		
0180xxyy	HFPC error [OWN_CTL]	An illegal status was detected in the HFPC diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the FC Interface Board #x on the Control Unit displayed in the message. ②If not recovered, replace the Control Unit.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0181xxyy	H-IPC error [OWN_CTL]	An illegal status was detected in the iSCSI diagnosis. xx : Diagnosis part yy : Error code	Full Dump	①Replace the iSCSI Interface Board #x on the Control Unit displayed in the message. ②If not recovered, replace the Control Unit.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
01810xyy	H-IPC#0 error [OWN_CTL]	An illegal status was detected in HIPC #0. x : Diagnosis part yy : Error code	Full Dump	① Replace the iSCSI Interface Board #0 on the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
01811xyy	H-IPC#1 error [OWN_CTL]	An illegal status was detected in HIPC #1. x : Diagnosis part yy : Error code	Full Dump	② If not recovered, replace the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
01812xyy	H-IPC#2 error [OWN_CTL]	An illegal status was detected in HIPC #2. x : Diagnosis part yy : Error code	Full Dump	① Replace the iSCSI Interface Board #1 on the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
01813xyy	H-IPC#3 error [OWN_CTL]	An illegal status was detected in HIPC #3. x : Diagnosis part yy : Error code	Full Dump	② If not recovered, replace the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0182x0yy	H-FPC#0 error [OWN_CTL]	An invalid status was detected in HFPC #0. x : Diagnosis part yy : Error code	Full Dump	① Replace the FC Interface Board #0 on the Control Unit displayed in the message. In case of the RKEM/RKES/RKEXS, replace the Control Unit whose ALM LED is on.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0182x1yy	H-FPC#1 error [OWN_CTL]	An invalid status was detected in HFPC #1. x : Diagnosis part yy : Error code	Full Dump		
0182x2yy	H-FPC#2 error [OWN_CTL]	An invalid status was detected in HFPC #2. x : Diagnosis part yy : Error code	Full Dump	② If not recovered, replace the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0182x3yy	H-FPC#3 error [OWN_CTL]	An invalid status was detected in HFPC #3. x : Diagnosis part yy : Error code	Full Dump		
0182x4yy	H-FPC#4 error [OWN_CTL]	An invalid status was detected in HFPC #4. x : Diagnosis part yy : Error code	Full Dump	① Replace the FC Interface Board #1 on the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
0182x5yy	H-FPC#5 error [OWN_CTL]	An invalid status was detected in HFPC #5. x : Diagnosis part yy : Error code	Full Dump	② If not recovered, replace the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
0182x6yy	H-FPC#6 error [OWN_CTL]	An invalid status was detected in HFPC #6. x : Diagnosis part yy : Error code	Full Dump		
0182x7yy	H-FPC#7 error [OWN_CTL]	An invalid status was detected in HFPC #7. x : Diagnosis part yy : Error code	Full Dump		

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Chapter 3. Failure Messages

In this Chapter, read “microprogram” of the message text as “firmware”.

Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0010x	[DCTL]The DRR0 error was detected (CTL-x)	D-CTL LSI detected DRR0 error interruption. x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H0020x	[DCTL]The DRR1 error was detected (CTL-x)	D-CTL LSI detected DRR1 error interruption. x : Control Unit # (0-1)	Simple Trace		
H0100x	[DCTL]The ECC write parity error was detected (CTL-x)	D-CTL LSI detected a parity error in the ECC added part when executing write to the Cache memory. x : Control Unit # (0-1)	Full Dump	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0110x	[DCTL]The ECC generation error was detected (CTL-x)	D-CTL LSI detected an ECC generation error in the ECC added part when executing write to the Cache memory. x : Control Unit # (0-1)	Full Dump	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H012xy	[DCTL]The uncorrectable CACHE error was detected (CTL-x, CACHE-y)	D-CTL LSI detected an error of two bits or more when executing read to the Cache memory. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Full Dump	①Replace the Cache Unit displayed in the message.	Replacement “2.2.6 Replacing Cache Unit” (REP 02-0640)
H0130x	[DCTL]The ECC correction failed (CTL-x)	D-CTL LSI detected discrepancy of the ECC correction when executing read to the Cache memory. x : Control Unit # (0-1)	Full Dump	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H0140x	[DCTL]The sequencer time-out error was detected (CTL-x)	D-CTL LSI detected time-out of sequence or a parity error of time-out count. x : Control Unit # (0-1)	Full Dump	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0150x	[DCTL]The RCTL error was detected (CTL-x)	D-CTL LSI detected that the Cache control part did not receive a response of the RCTL (CACHE-I/F) signal which indicates a response of read. x : Control Unit # (0-1)	Full Dump	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0160x	[DCTL]The RCLK error was detected (CTL-x)	D-CTL LSI detected that the Cache control part did not receive a response of the RCLK (CACHE-I/F) signal which is a clock for taking read data. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0170x	[DCTL]The CACHE address was over the address space [MPU] (CTL-x)	D-CTL LSI detected a Cache address over error when the Cache of MPU was accessed. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0180x	[DCTL]The address parity error was detected [MPU] (CTL-x)	D-CTL LSI detected an address parity error in the transfer address received in the Cache control part. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0190x	[DCTL]The length parity error was detected (CTL-x)	D-CTL LSI detected a length parity error in the transfer word length received in the Cache control part. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H01A0x	[DCTL]The CACHE Address was over the address space [DMA] (CTL-x)	D-CTL LSI detected a Cache address over error at the Cache access of H_PORT, D_PORT, DMA #0 or MDMA. x : Control Unit # (0-1)	Full Dump		
H01B0x	[DCTL]The dummy area access error was detected (CTL-x)	D-CTL LSI detected access to the access prohibited area in the added area of the 4- byte dummy data of the Cache memory. x : Control Unit # (0-1)	Full Dump		
H01C0x	[DCTL]The address parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the address from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace		
H01D0x	[DCTL]The length parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the length from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace		
H01E0x	[DCTL]The BYTE-ENABLE parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the BYTE_EN from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace		
H01F0x	[DCTL]The write data parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the write data from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace		
H01G0x	[DCTL]The read data parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the read data from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H01H0x	[DCTL]The BYTE-ENABLE error of the slave command bridge was detected (CTL-x)	D-CTL LSI detected an unfair pattern of BYTE_EN from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H01J0x	[DCTL]The length error was detected (CTL-x)	D-CTL LSI detected an unfair pattern of length from Cmd_BridgeS. x : Control Unit # (0-1)	CTL Alarm Trace	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H01K0x	[DCTL]The address parity error of the register interface was detected (CTL-x)	D-CTL LSI detected an error response (address parity error) of REG-I/F in the MP part. x : Control Unit # (0-1)	CTL Alarm Trace	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H01L0x	[DCTL]The write data parity error of the register interface was detected (CTL-x)	D-CTL LSI detected an error response (write data parity error) of REG-I/F in the MP part. x : Control Unit # (0-1)	CTL Alarm Trace		
H01M0x	[DCTL]The register interface error was detected (CTL-x)	D-CTL LSI detected an error response of REG-I/F. x : Control Unit # (0-1)	CTL Alarm Trace		
H01N0x	[DCTL]The read data parity error was detected in the register interface (CTL-x)	D-CTL LSI detected a parity error in the read data received in the REG-I/F part. x : Control Unit # (0-1)	CTL Alarm Trace		
H01P0x	[DCTL]The CACHE read data parity error was detected (CTL-x)	D-CTL LSI detected a parity error in the data read from the Cache memory. x : Control Unit # (0-1)	CTL Alarm Trace		
H01Q0x	[DCTL]The MP sequencer error was detected (CTL-x)	D-CTL LSI detected an error in the control sequence of the MP part. x : Control Unit # (0-1)	Full Dump		
H01R0x	[DCTL]The master command bridge D1 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_D1. x : Control Unit # (0-1)	Simple Trace		
H01S0x	[DCTL]The master command bridge D0 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_D0. x : Control Unit # (0-1)	Simple Trace		
H01T0x	[DCTL]The master command bridge H1 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_H1. x : Control Unit # (0-1)	Simple Trace		
H01U0x	[DCTL]The master command bridge H0 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_H0. x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H01V0x	[DCTL]The refresh error was detected (CTL-x)	D-CTL LSI detected an error in the refresh control part for the Cache memory. x : Control Unit # (0-1)	Full Dump	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H01W0x	[DCTL]The CACHE0 error was detected (CTL-x)	D-CTL LSI detected an error in the Cache0 part. x : Control Unit # (0-1)	Full Dump	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H01X0x	[DCTL]The CACHE1 error was detected (CTL-x)	D-CTL LSI detected an error in the Cache1 part. x : Control Unit # (0-1)	Full Dump		
H01Y0x	[DCTL]The MCTL error was detected (CTL-x)	D-CTL LSI detected an error interruption of MCTL. x : Control Unit # (0-1)	Simple Trace	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H01Z0x	[DCTL]The slave command bridge error was detected [MP] (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeS_MP. x : Control Unit # (0-1)	CTL Alarm Trace		
H0200x	[DCTL]The bridge error was detected [Host0] (CTL-x)	D-CTL LSI detected a bridge error. (HP #0) x : Control Unit # (0-1)	Simple Trace		
H0210x	[DCTL]The bridge error was detected [Host1] (CTL-x)	D-CTL LSI detected a bridge error. (HP #1) x : Control Unit # (0-1)	Simple Trace		
H0220x	[DCTL]The bridge error was detected [DRV0] (CTL-x)	D-CTL LSI detected a bridge error. (D #0) x : Control Unit # (0-1)	Simple Trace		
H0230x	[DCTL]The bridge error was detected [DRV1] (CTL-x)	D-CTL LSI detected a bridge error. (D #1) x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0240x	[DCTL]The bridge error was detected [external access] (CTL-x)	D-CTL LSI detected a bridge error. (Ext_Accs) x : Control Unit # (0-1)	CTL Alarm Trace	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
H0250x	[DCTL]The bridge error was detected [cross DRV0] (CTL-x)	D-CTL LSI detected a bridge error. (Cross_Drv0) x : Control Unit # (0-1)	Simple Trace	②Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0260x	[DCTL]The bridge error was detected [cross DRV1] (CTL-x)	D-CTL LSI detected a bridge error. (Cross_Drv1) x : Control Unit # (0-1)	Simple Trace	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H0270x	[DCTL]The master command bridge error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_DUAL.. x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H0280x	[DCTL]The message signal interrupt control error was detected (CTL-x)	D-CTL LSI detected an error in MSI (Message Signal Interrupt) CTL. x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0300x	[DCTL]The PCI root complex error was detected [P_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0310x	[DCTL]The unsupported request error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0320x	[DCTL]The PCI Express ECRC error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0330x	[DCTL]The malformed transaction layer protocol was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0340x	[DCTL]The receiver overflow was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Receiver overflow". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0350x	[DCTL]The unexpected completion was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0360x	[DCTL]The completer abort was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Completer abort". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0370x	[DCTL]The completion time-out was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0380x	[DCTL]The poisoned transaction layer protocol was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "poisoned TLP (Transaction Layer Protocol)". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0390x	[DCTL]The data link protocol error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03A0x	[DCTL]The training error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Training error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03B0x	[DCTL]The poison error of the completion without data was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected that the status was "success" in "completion" in the issued read request (including write/read of configuration register), but the data was "poisoned data". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03C0x	[DCTL]The unsupported request was detected [P_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of "completion" in the request other than write/read of the issued configuration register. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03D0x	[DCTL]The completer abort was detected in the completion status [P_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of "completion" for the request other than write/read of the issued configuration register. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03E0x	[DCTL]The size error was detected in the completion without data [P_IRQ6] (CTL-x)	The status of "completion" of the issued request was "success", but D-CTL LSI received the data other than the requested data size. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H03F0x	[DCTL]The internal parity error of the configuration read was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H03G0x	[DCTL]The completion without data was discarded because of the time-out [P_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H03H0x	[DCTL]The issued completion without data was discarded [P_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03J0x	[DCTL]The interrupt message to issue was discarded [P_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03K0x	[DCTL]The PCI device error was detected [internal bus error] [P_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03L0x	[DCTL]The PCI device error was detected [internal memory error] [P_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03M0x	[DCTL]The internal bus error was detected [P_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H03N0x	[DCTL]The rollover of the replay number was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H03P0x	[DCTL]The PCI root complex error was detected [H0_IRQ6] (CTL-x)	D-CTL LSI received “PCI RC (Root Complex) error”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H03Q0x	[DCTL]The unsupported request error was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Unsupported request error”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03R0x	[DCTL]The PCI Express ECRC error was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “ECRC error”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03S0x	[DCTL]The malformed transaction layer protocol was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “malformed TLP (Transaction Layer Protocol)”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	②Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
H03T0x	[DCTL]The receiver overflow was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Receiver overflow”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H03U0x	[DCTL]The unexpected completion was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Unexpected completion”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H03V0x	[DCTL]The completer abort was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Completer abort”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03W0x	[DCTL]The completion time-out was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Completion time-out”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03X0x	[DCTL]The poisoned transaction layer protocol was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Poisoned TLP (Transaction Layer Protocol)”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03Y0x	[DCTL]The data link protocol error was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Data Link Protocol error”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H03Z0x	[DCTL]The training error was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “Training error”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0400x	[DCTL]The poison error of the completion without data was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0410x	[DCTL]The unsupported request was detected [H0_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
H0420x	[DCTL]The completer abort was detected in the completion status [H0_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of “completion” for the request other than write/read of the issued configuration register. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H0430x	[DCTL]The size error was detected in the completion without data [H0_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	④ When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0440x	[DCTL]The internal parity error of the configuration read was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				③ Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0450x	[DCTL]The completion without data was discarded because of the timeout [H0_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0460x	[DCTL]The issued completion without data was discarded [H0_IRQ6](CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				③ When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④ When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0470x	[DCTL]The interrupt message to issue was discarded [H0_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0480x	[DCTL]The PCI device error was detected [internal bus error] [H0_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				②Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0490x	[DCTL]The PCI device error was detected [internal memory error] [H0_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H04A0x	[DCTL]The internal bus error was detected [H0_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
				②When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H04B0x	[DCTL]The rollover of the replay number was detected [H0_IRQ6] (CTL-x)	D-CTL LSI detected “roll-over” of REPLAY_NUMBER. [H0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② Replace the Interface Board (Interface Board #0 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
				③ When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				④ When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H04C0x	[DCTL]The unsupported request error was detected [H1_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H04D0x	[DCTL]The unsupported request error was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04E0x	[DCTL]The PCI Express ECRC error was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04F0x	[DCTL]The malformed transaction layer protocol was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	②Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
H04G0x	[DCTL]The receiver overflow was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Receiver overflow". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H04H0x	[DCTL]The unexpected completion was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H04J0x	[DCTL]The completer abort was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Completer abort". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04K0x	[DCTL]The completion time-out was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04L0x	[DCTL]The poisoned transaction layer protocol was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "poisoned TLP (Transaction Layer Protocol)". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04M0x	[DCTL]The data link protocol error was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H04N0x	[DCTL]The training error was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Training error". [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H04P0x	[DCTL]The poison error of the completion without data was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H04Q0x	[DCTL]The unsupported request was detected [H1_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	②Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
H04R0x	[DCTL]The completer abort was detected in the completion status [H1_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of “completion” for the request other than write/read of the issued configuration register. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H04S0x	[DCTL]The size error was detected in the completion without data [H1_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H04T0x	[DCTL]The internal parity error of the configuration read was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				②When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				③Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H04U0x	[DCTL]The completion without data was discarded because of the timeout [H1_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as “credit” was not enough, and the Cpl/CpID was discarded. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H04V0x	[DCTL]The issued completion without data was discarded [H1_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	②Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
				③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H04W0x	[DCTL]The interrupt message to issue was discarded [H1_IRQ6] (CTL-x)	When D-CTL LSI tried to issue “Assert/Deassert INTx”, it could not issue it for some reasons and discarded it. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				②When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				③Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H04X0x	[DCTL]The PCI device error was detected [internal bus error] [H1_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				②Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				③When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H04Y0x	[DCTL]The PCI device error was detected [internal memory error] [H1_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H04Z0x	[DCTL]The internal bus error was detected [H1_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
				②When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0500x	[DCTL]The rollover of the replay number was detected [H1_IRQ6] (CTL-x)	D-CTL LSI detected “roll-over” of REPLAY_NUMBER. [H1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② Replace the Interface Board (Interface Board #1 in case of the RKH) installed in the Control Unit displayed in the message.	Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
				③ When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				④ When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0510x	[DCTL]The PCI root complex error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI received “PCI RC (Root Complex) error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H0520x	[DCTL]The unsupported request error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Unsupported request error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0530x	[DCTL]The PCI Express ECRC error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “ECRC error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H0540x	[DCTL]The malformed transaction layer protocol was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “malformed TLP (Transaction Layer Protocol)”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0550x	[DCTL]The receiver overflow was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Receiver overflow”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0560x	[DCTL]The unexpected completion was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0570x	[DCTL]The completer abort was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Completer abort". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0580x	[DCTL]The completion time-out was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H0590x	[DCTL]The poisoned transaction layer protocol was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Poisoned TLP (Transaction Layer Protocol)". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H05A0x	[DCTL]The data link protocol error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05B0x	[DCTL]The training error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Training error". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05C0x	[DCTL]The poison error of the completion without data was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected that the status was "success" in "completion" in the issued read request (including write/read of configuration register), but the data was "poisoned data". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05D0x	[DCTL]The unsupported request was detected [D0_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of "completion" in the request other than write/read of the issued configuration register. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H05E0x	[DCTL]The completer abort was detected in the completion status [D0_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of "completion" for the request other than write/read of the issued configuration register. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H05F0x	[DCTL]The size error was detected in the completion without data [D0_IRQ6] (CTL-x)	The status of "completion" of the issued request was "success", but D-CTL LSI received the data other than the requested data size. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H05G0x	[DCTL]The internal parity error of the configuration read was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H05H0x	[DCTL]The completion without data was discarded because of the timeout [D0_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05J0x	[DCTL]The issued completion without data was discarded [D0_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05K0x	[DCTL]The interrupt message to issue was discarded [D0_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05L0x	[DCTL]The PCI device error was detected [internal bus error] [D0_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05M0x	[DCTL]The PCI device error was detected [internal memory error] [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H05N0x	[DCTL]The internal bus error was detected [D0_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H05P0x	[DCTL]The rollover of the replay number was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H05Q0x	[DCTL]The PCI root complex error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H05R0x	[DCTL]The unsupported request error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05S0x	[DCTL]The PCI Express ECRC error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05T0x	[DCTL]The malformed transaction layer protocol was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05U0x	[DCTL]The receiver overflow was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Receiver overflow". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05V0x	[DCTL]The unexpected completion was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05W0x	[DCTL]The completer abort was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Completer abort". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05X0x	[DCTL]The completion time-out was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05Y0x	[DCTL]The poisoned transaction layer protocol was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Poisoned TLP (Transaction Layer Protocol)". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H05Z0x	[DCTL]The data link protocol error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0600x	[DCTL]The training error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Training error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H0610x	[DCTL]The poison error of the completion without data was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
H0620x	[DCTL]The unsupported request was detected [D1_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0630x	[DCTL]The completer abort was detected in the completion status [D1_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of “completion” for the request other than write/read of the issued configuration register. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H0640x	[DCTL]The size error was detected in the completion without data [D1_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H0650x	[DCTL]The internal parity error of the configuration read was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H0660x	[DCTL]The completion without data was discarded because of the timeout [D1_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as “credit” was not enough, and the Cpl/CpID was discarded. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0670x	[DCTL]The issued completion without data was discarded [D1_IRQ6] (CTL-x)	D-CTL LSI discarded CpI (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0680x	[DCTL]The interrupt message to issue was discarded [D1_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0690x	[DCTL]The PCI device error was detected [internal bus error] [D1_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H06A0x	[DCTL]The PCI device error was detected[internal memory error] [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H06B0x	[DCTL]The internal bus error was detected [D1_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		
H06C0x	[DCTL]The rollover of the replay number was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H06D0x	[DCTL]The PCI root complex error was detected [E_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
H06E0x	[DCTL]The unsupported request error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	②Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H06F0x	[DCTL]The PCI Express ECRC error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H06G0x	[DCTL]The malformed transaction layer protocol was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06H0x	[DCTL]The receiver overflow was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Receiver overflow". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H06J0x	[DCTL]The unexpected completion was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H06K0x	[DCTL]The completer abort was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Completer abort". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06L0x	[DCTL]The completion time-out was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06M0x	[DCTL]The poisoned transaction layer protocol was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Poisoned TLP (Transaction Layer Protocol)". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06N0x	[DCTL]The data link protocol error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06P0x	[DCTL]The training error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Training error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H06Q0x	[DCTL]The poison error of the completion without data was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	①Perform the maintenance according to the message code “W01z0x CTL alarm” displayed at the same time.	“Chapter 6. Warning Messages” (MSG 06-0000)
				②Replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H06R0x	[DCTL]The unsupported request was detected [E_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H06S0x	[DCTL]The completer abort was detected in the completion status [E_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of “completion” for the request other than write/read of the issued configuration register. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
H06T0x	[DCTL]The size error was detected in the completion without data [E_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	3. Turn on the power of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
H06U0x	[DCTL]The internal parity error of the configuration read was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06V0x	[DCTL]The completion without data was discarded because of the time-out [E_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as “credit” was not enough, and the Cpl/CpID was discarded. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H06W0x	[DCTL]The issued completion without data was discarded [E_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H06X0x	[DCTL]The interrupt message to issue was discarded [E_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H06Y0x	[DCTL]The PCI request was discarded by the timeout [internal bus error] [E_IRQ6] (CTL-x)	D-CTL LSI could not execute the request from the internal bus of D-CTL in the set time because the condition such as Credit was not enough. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H06Z0x	[DCTL]The PCI request was discarded by the internal bus error [E_IRQ6] (CTL-x)	NSWC (internal but of D-CTL: I/F Slave Wrapper Control) set the error bit of TXDB (Transmit side Data Buffer) due to some errors on the internal bus of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0700x	[DCTL]The PCI request was discarded [internal bus error] [E_IRQ6] (CTL-x)	D-CTL LSI discarded the request from the internal path of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H0710x	[DCTL]The PCI device error was detected [internal memory error] [E_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0720x	[DCTL]The internal bus error was detected [E_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0730x	[DCTL]The rollover of the replay number was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	CTL Alarm Trace		
H0800x	[DCTL]The slave dual error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in the DUAL-Slave part. x : Control Unit # (0-1)	CTL Alarm Trace		
H0810x	[DCTL]The CACHE error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in the Cache part. [Dual] x : Control Unit # (0-1)	CTL Alarm Trace		
H0820x	[DCTL]The slave command bridge error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeS. [Dual] x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0900x	[CSDS]The double error detection retry was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected retry of Double error. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0910x	[CSDS]The correctable read memory error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected correctable read. x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H0920x	[CSDS]The uncorrectable error on the write was detected [0xyyyyyyyy] (CTL-x)	The chipset detected DED (double error detect) in write to DRAM from chipset. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0930x	[CSDS]The uncorrectable read memory error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected DED (double error detect). x : Control Unit # (0-1)	Full Dump		
H0940x	The processor system bus error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected a Processor system bus error. x : Control Unit # (0-1)	Full Dump		
H0950x	The internal bus error of the chipset was detected [0xyyyyyyyy] (CTL-x)	The chipset detected an NSI (internal bus of chipset) error. x : Control Unit # (0-1)	Full Dump		
H0960x	The PCI Express device error was detected [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected an error of the PCI Express device. x : Control Unit # (0-1)	Full Dump		
H0970x	The correctable PCIe device error was over the threshold [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error of the PCI Express device. x : Control Unit # (0-1)	CTL Alarm Trace		
H0980x	The specific PCI Express unit error was detected [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected an error other than the standard of PCI Express. x : Control Unit # (0-1)	Full Dump		
H0990x	The specific correctable PCIe unit error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error other than the PCI Express standard. x : Control Unit # (0-1)	CTL Alarm Trace		
H09A0x	The PCI Express error message was received [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected a PCI error of the standard of PCI Express. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H09B0x	The correctable PCI Express error message was received [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error of the PCI Express standard. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H09C0x	The error was detected in the buffer unit of the chipset [0xyyyyyyyy] (CTL-x)	The chipset detected an error in the buffer unit of WLchipset. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H09D0x	The machine check error was detected (CTL-x)	The chipset detected a machine check error. x : Control Unit # (0-1)	Full Dump		
H09E0x	The LPC bridge error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected an error in the LPC bridge. x : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H09F00	New array is down because Auto Migration is not completed	Since you separated the New Array from the Original Array and started the New Array independently while executing Auto Migration of the array, the New Array went down.	Simple Trace	–	–
H0A00x	[DCTL]The uncorrectable CACHE error was detected (CTL-x, CACHE-y/z)	D-CTL LSI detected an ECC uncorrectable error of two bits or more from each of two Cache memories when reading the Cache memories. x : Control Unit # (0-1) y/z : Cache Unit # (0-3)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0A10x	DUAL-Slave error was detected [H_PORT] (CTL-x)	When executing write to the Cache memory of another Control Unit, a hardware failure occurred in the DUAL-Slave part of D-CTL LSI of the Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0A20x	DUAL-Cache error was detected [H_PORT] (CTL-x)	When executing write to the Cache memory of another Control Unit, a hardware failure occurred in the Cache part of D-CTL LSI of the Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace	③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H0A30x	DUAL-CmdBridgeS error was detected [H_PORT] (CTL-x)	When executing write to the Cache memory of another Control Unit, a hardware failure occurred in the CmdBrgS (DUAL) part of D-CTL LSI of the Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0A40x	[DCTL] The error without the factor was detected in the DUAL I/F (CTL-x)	A DUALS failure without the detailed factor occurred. x : Control Unit # (0-1)	CTL Alarm Trace	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H0A500	PCI Configuration access error was detected [HostX_PCI Express core, 0xyyyyzzzz] (CTL-x)	An error occurred in the Configuration access of the HOST PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	CTL Alarm Trace	① When Host # displayed in the message is "0", replace the Interface Board #0 installed in the Control Unit displayed in the message, and when Host # is "1", replace the Interface Board #1.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0A600	PCI Configuration access error was detected [DrvX_PCI Express core, 0xyyyyzzzz] (CTL-x)	An error occurred in the Configuration access of the Drv PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0A700	PCI Configuration access error was detected [DUAL_PCI Express core, 0xyyyyzzzz] (CTL-x)	An error occurred in the Configuration access of the Dual PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	CTL Alarm Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0A800	The initialization of PCI Express failed because of the hardware error [DUAL] (CTL-x)	The initial setting of DUAL PCI Express of the Control Unit failed. x : Control Unit # (0-1)	CTL Alarm Trace	① Press the soft reset button of the Control Unit in 20 to 30 seconds after inserting the Control Unit in the Basic Chassis. After that, if this message is displayed, disregard it.	–
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H0A900	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-0)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#0) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
H0AA00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-1)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#1) [Dual]. x : Control Unit # (0-1)	Full Dump		
H0AB00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-0/2)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#0/2) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message. (However, when Cache Unit #2 is not installed, replace only Cache Unit #0.)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
H0AC00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-1/3)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#1/3) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message. (However, when Cache Unit #3 is not installed, replace only Cache Unit #1.)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0AD0x	[DCTL]The bridge time-out was detected by the dual core error [C_BrgM_DUAL] (CTL-x)	D-CTL LSI (Cmd_BridgeM) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	CTL Alarm Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0AE0x	[DCTL]The bridge time-out was detected by the dual core error [external access] (CTL-x)	D-CTL LSI (Ext_Accs) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	CTL Alarm Trace	③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
H0AF0x	[DCTL]The bridge time-out was detected by the dual core error [cross DRV0] (CTL-x)	D-CTL LSI (Cross_Drv0) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	CTL Alarm Trace	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0AG0x	[DCTL]The bridge time-out was detected by the dual core error [cross DRV1] (CTL-x)	D-CTL LSI (Cross_Drv1) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	CTL Alarm Trace	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
H0AHxy	EDC error was detected (CTL-x, I/F-y)	The EDC error exceeded the threshold value. x : Control Unit # (0-1) y : Interface Board # (0-1)	Simple Trace	① Replace the Control Unit and Inter face Board displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
H0AI0x	[DCTL] The violation of memory access from the other controller was detected (CTL-x)	The D-CTL LSI of the Control Unit detected the violation of the address of the memory access from the other Control Unit. x : Illegal Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0AJ0x	[DCTL] The violation of memory access to the other controller was detected (CTL-x)	The D-CTL LSI of the Control Unit detected the violation of the address of the memory access to the other Control Unit. x : Illegal Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0B00x	Synchronized error was detected [CIT] (CTL-x)	Synchronization of the interruption processing between MPU cores timed out. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0C00x	The synchronization processing error of the CTL cores was detected [ERR] (CTL-x)	When the firmware tried to synchronize the internal processing between the cores of the local Controller Unit, the synchronization processing timed out (failure processing support). x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H0D00x	Synchronization failure of the MPU core was detected [INM] (CTL-x)	An error occurred in the initial setting between the MPU cores/the synchronization during the CHK1 reset. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0E00x	Online microprogram update time-out was detected (CTL-x)	When the user tried to perform the planned shutdown of the subsystem, it was executing the online firmware replacement. Since the replacement timed out, the planned shutdown of the subsystem was carried out. x : Control Unit # (0-1)		① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ After confirming this message in the WEB Information Message or E-mail immediately before the planned shutdown of the subsystem, if the planned shutdown of the subsystem is carried out, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④ The maintenance work is not required when the following conditions are all met because the internal retry processing was executed in the Control Unit. • When the planned shutdown is carried out, the Control Unit displayed in the message is not replaced. • After restarting the subsystem, the ALARM LED on the front of the subsystem of the basic chassis does not light up. • The ALM LED on the Control Unit displayed in this message does not light up.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0F00x	The synchronization processing error of the CTL cores was detected [RCH] (CTL-x)	The synchronization processing between the MPU cores timed out when the Control Unit or firmware is replaced or the data of the Cache memory is recovered from the running Control Unit by automatic reboot to the Control Unit after boot-up. x : Control Unit # (0-1)	Full Dump	① Perform the maintenance according to the detail of the recovery procedure in the Troubleshooting "6.1.1 System Down". Try to restart the subsystem while retaining the hardware configuration at the time of the generation of the subsystem down to avoid the user data lost. The failed part is the Control Unit displayed in this message. Replace the Control Unit displayed in this message after restarting the subsystem as much as possible.	Troubleshooting "6.1.1 System Down" (TRBL 06-0020)
H0F100	The destage of the management information of DP pool failed	When executing the planned shutdown of the subsystem, the subsystem became the alarm status because write of the HDP management information to the chunk for the save area failed.	CTL Alarm Trace	① 1. Remove the power cables of the Basic Chassis. At this time, do not remove the Cache Backup Battery.	–
				2. Connect the power cables to the Basic Chassis.	–
				3. Turn on the main switch, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				4. Perform the maintenance referring to the message other than this massage first. Especially, when the HDU failure message such as "HDU alarm" or "HDU error" is displayed, perform the maintenance according to the message. When no failure message is displayed, identify the cause of the write failure, and contact the Technical Support Center for replacing the failed part.	–
				5. Execute the planned shutdown of the subsystem again.	–
				② When the phenomenon reappears, contact the Technical Support Center.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0F200	The staging of the management information of DP pool failed	The subsystem went down because the read of the HDP management information from the save-area chunk failed when starting the subsystem.	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.25 Recovery Method when the Subsystem went Down because the Load of the DP Management Information".	Troubleshooting "6.1.25 Recovery Method when the Subsystem went Down because the Load of the DP Management Information" (TRBL 06-1060)
H0F30x	The writing the initial data of DP Volume to CACHE failed [OWN CTL] (CTL-x)	The initial data transfer of the DP volume to the Cache memory failed due to the Control Unit failure displayed in the message. x : Control Unit # (0-1)	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0F40x	The writing the initial data of DP Volume to CACHE failed [THE OTHER CTL] (CTL-x)	The initial data transfer of the DP volume to the Cache memory failed due to the Control Unit failure displayed in the message. x : Control Unit # (0-1)	CTL Alarm Trace		
H0F500	Model upgrade was attempted although Dynamic Provisioning function was enabled	The subsystem upgrade was attempted while the Hitachi Dynamic Provisioning of the priced option, was enabled.	Simple Trace	① 1. Request the customer/SE to return the firmware and the hardware configuration of the subsystem to those before the upgrade according to the "Upgrade Procedure".	"Upgrade Procedure"
				2. When the user data of the DP Pool is necessary, request the customer/SE to backup the user data of the DP Pool.	–
				3. Request the customer/SE to delete all the setting of the Dynamic Provisioning function of the priced option referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
				4. Request the customer/SE to lock the license key of the Dynamic Provisioning function of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				5. Request the customer to perform the upgrade of the subsystem from the beginning again.	–
				6. Request the customer/SE to restore the backup data which was backed up in the procedure ①-2 to the upgraded subsystem as needed.	–
H0F600	The firmware has detected the error data in the DP management information of the array	When the firmware attempted to store the DP management information in the Disk Drive, the firmware detected an error of the DP management information in the Cache memory due to some failures.	Full Dump	① Perform the maintenance according to Troubleshooting "6.1.26 Recovery Method when the Firmware Detected an Error of the DP Management Information and the Control Unit was Blocked".	Troubleshooting "6.1.26 Recovery Method when the Firmware Detected an Error of the DP Management Information and the Control Unit was Blocked" (TRBL 06-1120)
H0F700	The capacity of the cache memory was changed during the memory reconfiguration	During the reconfigure memory processing, the planned shutdown was executed in the subsystem and the addition/removal of the Cache memories was performed.	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Install the Cache memories of the model names which were installed at the time of starting the subsystem last time into the same Cache memory slots as last time.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				4. Install the Control Unit in the subsystem.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				5. Turn on the main switch, and restart the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				6. Check that the subsystem becomes Ready.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Check that "I6J300 The memory rearrangement process has completed successfully" is displayed in the Information Message on WEB. If "I6H200 The memory rearrangement process has failed [errcode-x]" is displayed, perform the maintenance according to the message.	–
				8. After completing the reconfigure memory processing, execute the addition or removal of the Cache memory again.	Addition/Removal/ Relocation (ADD 00-0000)
H0F80x	Stack Watermark Over alert was detected [0xYYYYYYYY] (CTL-x)	An error of the program stack usage was detected. x : Control Unit # (0-1)	Simple Trace (Only for the blocked Control Unit, change to the Maintenance Mode, and then collect a simple trace.)	①When the message code "W01z0x CTL alarm" is displayed at the same time, perform the maintenance according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				②When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0F900	SED Authentication key error was detected	An error was detected when the authentication master key was restored.	Simple Trace	When the message code "I6K000 Master Authentication Key for SED is not restored" is displayed at the same time	
				① 1. Request the customer/SE to provide the backup file of the master key and the password specified at the time of the backup. Note that, if the customer/SE has lost the backup file of the master key and the password, contact the Technical Support Center.	–
				2. Change the subsystem to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				3. Restore the master key.	WEB "3.3.2 Master Authentication Key for SED" (WEB 03-0381)
				4. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				5. Check that the subsystem becomes Ready.	–
				When the message code "I6K100 The restoration of Master Authentication Key for SED does not succeed" is displayed at the same time	
				① 1. The restored backup file of the master key and the password are incorrect. Check that there is no input error, and check with the customer/SE for the backup file and the password again.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Change the subsystem to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				3. Restore the master key.	WEB “3.3.2 Master Authentication Key for SED” (WEB 03-0381)
				4. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB “3.7 Return Method to the Normal Mode” (WEB 03-0540)
				5. Check that the subsystem becomes Ready.	–
				② 1. When it does not recover even if there is no error in the backup file and the password or in step ①, the backup file may be damaged. Check with the customer/SE whether any other most recent backup file exists or not. If it does not exist, contact the Technical Support Center.	–
				2. Change the subsystem to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				3. Restore the master key.	WEB “3.3.2 Master Authentication Key for SED” (WEB 03-0381)
				4. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB “3.7 Return Method to the Normal Mode” (WEB 03-0540)
				5. Check that the subsystem becomes Ready.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H0FA0x	Flash memory sum check error was detected (CTL-x)	The read to the flash memory of the Control Unit failed due to the sum check error. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H0FB00	SED cannot be used for system drive	The SAS (SED) Drive cannot be used as a system disk.	Simple Trace	① 1. Check from the purchase order or the configuration diagram what type of Disk Drive is to be installed in the system disk.	–
				2. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				3. Remove all the SAS (SED) Disk Drives installed in HDU #0 to HDU #4 of Unit-0.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				4. Install the correct type of Disk Drive in the system disk.	
				5. Turn on the main switch, and restart the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H20100	Parity generation LA error [DRR]	Illegal LA was detected when the (DRR Failure)	CTL Alarm Trace	① See Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
H203A0	DCTL time-out [H_PORT]	D-CTL finish time-out was detected.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H204A1	DCTL time-out [D_PORT]	D-CTL finish time-out was detected.	CTL Alarm Trace		
H205B0	DMA forced stop failed	Forced stopping of DMA failed.	CTL Alarm Trace		
H2091x	CACHE address over [OTH_CTL] (CTL-x)	A cache address over error occurred in another Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace		
H21000	DCTL address over [DMA#0]	The cache address over occurred.	Simple Trace		
H21100	DCTL address over [D_PORT]	The cache address over occurred.	Simple Trace		
H21200	DCTL address over [H_PORT]	The cache address over occurred.	Simple Trace		
H301xx	ECC write parity error (DMA-y)	D-CTL LSI detected a parity error when it tried to write the data in the Cache memory. x : 00 (DDR) 1y (DDMA) 2y (HDMA) FF (unknown) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
H302xx	ECC generate error (DMA-y)	D-CTL LSI detected a failure in the ECC generation when it writes the data in the Cache memory. x : 00 (DDR) 1y (DDMA) 2y (HDMA) FF (unknown) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H303xy	ECC uncorrectable error was detected (CTL-x, CACHE-y)	D-CTL LSI of the Control Unit detected a failure that ECC could not correct the bit error when reading from the Cache memory. x : Control Unit # (0-1) y : Cache Unit # (0-3)	CTL Alarm Trace	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H3030*	ECC uncorrectable error (CACHE-*)	D-CTL LSI of the Control Unit detected a failure that ECC could not correct the bit error when reading from the Cache memory. (Cache slot cannot be specified)	CTL Alarm Trace	① Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② If not recovered, replace all the Cache Units installed in the Control Unit concerned.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
H304xy	ECC correction failed (CTL-x, DMA-y)	D-CTL LSI of the Control Unit detected a failure when ECC corrected the bit error while executing read to the Cache memory. x : Control Unit # (0-1) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H305xy	H-FPC ECC error was detected (CTL-x, I/F-y)	The ECC error count detected when H-FPC LSI accessed the internal RAM exceeded the threshold value. x : Control Unit # (0-1) y : Interface Board # (0-1)	CTL Alarm Trace	① Replace the Fibre Channel Interface Board in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H306xy	Please replace cache memory to recover from cache uncorrectable error (CTL-x, CACHE-y)	An uncorrectable error of the Cache memory was detected by the automatic diagnosis of the Cache memory online. x : Control Unit # (0-1) y : Cache Unit # (0-3)	CTL Alarm Trace	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H30B0x	CACHE uncorrectable ERR [OTH_CTL] (CTL-x)	Cache uncorrectable error x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit. ② If not recovered, replace the above Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H30Bxy	CACHE uncorrectable ERR [OTH_CTL] (CTL-x, CACHE-y)	A Cache uncorrectable error occurred. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Full Dump	① Replace the Cache Unit displayed in the message. When the Cache Memory number displayed is "*", replace all the Cache Memories mounted on the Controller designated.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
H30G00	ECC uncorrectable error was detected (CTL-x, CACHE-y/z)	D-CTL LSI of the Control Unit detected an ECC uncorrectable failure at the time of read from the Cache memory (damage of two Cache memories installed in the cache slots displayed in the message). x : Control Unit # (0-1) y/z : Cache Unit # (0-3)	Simple Trace	① Replace the Cache memory displayed in the message. ② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H30K0x	Backend error count of the CTL was over the threshold [CODE-y] (CTL-x)	D-SPC (Drive-side SAS Protocol Chip) detected a Control Unit failure and the failure count exceeded the threshold value. x : Control Unit # (0-1) y : CODE # (0-FF)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message. ② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) "Chapter 6. Warning Messages" (MSG 06-0000)
H30L0x	Backend error count of the CTL was over the threshold [SAS_FW REBOOTNG] (CTL-x)	The initial setting of D-SPC (Drive-side SAS Protocol Chip) terminated abnormally. x : Control Unit # (0-1)	Simple Trace		
H30M0x	Backend error count of the CTL was over the threshold [SAS_FW FATAL] (CTL-x)	A fatal error of D-SPC (Drive-side SAS Protocol Chip) was detected. x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
H30N0x	FCTL LSI failure was detected [code-yyyy] (CTL-z)	The access to FCTL LSI of the Controller terminated abnormally. x :Read/Write type (R or W) y :FCTL register address z : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
H44900	DUAL I/F write ready error [INT/HP#00] [REG82001454, Bit21]	A ready time-out was detected in the HP #00 when the DCTL of the other system was reset.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on. ② When the ALM LED does not light up, check the Information Message on WEB, and replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H44A00	DUAL I/F write ready error [INT/HP#01] [REG82001454, Bit21]	A ready time-out was detected in the HP #01 when the DCTL of the other system was reset.	CTL Alarm Trace		
H44B00	DUAL I/F write ready error [INT/HP#02] [REG82001454, Bit21]	A ready time-out was detected in the HP #02 when the DCTL of the other system was reset.	CTL Alarm Trace		
H44C00	DUAL I/F write ready error [INT/HP#03] [REG82001454, Bit21]	A ready time-out was detected in the HP #03 when the DCTL of the other system was reset.	CTL Alarm Trace		
H44D00	DUAL I/F write ready error [INT/DP#00] [REG82001454, Bit21]	A ready time-out was detected in the DP #00 when the CTL of the other system was reset.	CTL Alarm Trace		
H44E00	DUAL I/F write ready error [INT/DP#01] [REG82001454, Bit21]	A ready time-out was detected in the DP #01 when the CTL of the other system was reset.	CTL Alarm Trace		
H44F00	DUAL I/F write ready error [INT/DP#02] [REG82001454, Bit21]	A ready time-out was detected in the DP #02 when the CTL of the other system was reset.	CTL Alarm Trace		
H45000	DUAL I/F write ready error [INT/DP#03] [REG82001454, Bit21]	A ready time-out was detected in the DP #03 when the CTL of the other system was reset.	CTL Alarm Trace		
H45100	DUAL I/F write ready error [INT/DMA#0] [REG82001454, Bit21]	A ready time-out was detected in the DMA #0 when the CTL of the other system was reset.	CTL Alarm Trace		
H90210	CTL failure	The Control Unit was blocked	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
H90320	Watch-dog time-out	A watchdog time-out occurred.	CTL Alarm Trace	① Replace the Control Unit of whose ALM LED is on and the Cache memory on the Control Unit concerned.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HA010x	CUDG error (CTL-x)	An CUDG error was detected while the subsystem was starting. (RAM CUDG) x : Control Unit # (0-1)	Simple Trace	① 1. Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				2. Replace the Control Unit shown in this message code (in case of a dual controller system, the ALM LED also lights up).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HA020x	RTC alarm (CTL-x)	A RTC failure occurred or the RTC battery was used up. x : Control Unit # (0-1)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HA030x	M-DMA transfer time-out was detected (CTL-x)	The M-DMA transfer timed out. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				② When the ALM LED on the Control Unit displayed in the message lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HA0310	IDMA transfer time-out	IDMA transfer time-out occurred. (2 msec)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HA0311	IDMA retry error	IDMA failed in retry.	CTL Alarm Trace		
HA0312	IDMA multiple run	The system was running when IDMA was started.	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HA042x	Flash memory write error (CTL-x)	Writing in flash memory failed. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HA050x	M-DMA multiple run error was detected (CTL-x)	When it tried to start M-DMA, M-DMA was already operating. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				② When the ALM LED on the Control Unit displayed in the message lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HA0531	SOCKET open error	An OPEN error was caused by the socket.	CTL Alarm Trace	①1. Replace the LAN cable.	–
HA0532	ACCEPT open error	An OPEN error was caused by the accept.	CTL Alarm Trace	2. Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HA060x	M-DMA retry error was detected (CTL-x)	Retry of M-DMA failed. x : Control Unit # (0-1)	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				②When the ALM LED on the Control Unit displayed in the message lights up, replace the Control Unit displayed in the message and all Cache Units installed in the Control Unit.	
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HA07xy	Uncorrectable ECC error was detected (CTL-x, CACHE-y)	A bit failure uncorrectable by ECC was detected when D-CTL LSI of the Control Unit read the data from the Cache memory. x : Control Unit # (0-1) y : Cache Unit # (0-3)	CTL Alarm Trace	①Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				②If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HA0800	Uncorrectable ECC error was detected (CTL-x, CACHE-y/z)	A bit failure uncorrectable by ECC was detected when D-CTL LSI of the Control Unit read the data from the Cache memory. (A failure of two Cache memories installed in the Cache slots displayed in the message) x : Control Unit # (0-1) y/z : Cache Unit # (0-3)	CTL Alarm Trace		
HB0210	Target abort INT status error	The target abortion INT status is illegal.	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HB0421	H-FPC PCI STS REG error [RMA]	The master abort occurred when the Fibre Channel Protocol Controller (H-FPC) LSI on the host side made the master access to the PCI.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HB0522	H-FPC PCI STS REG error [DPE]	A parity error of data occurred when the Fibre Channel Protocol Controller (H-FPC) LSI on the host side made the master access to the PCI	CTL Alarm Trace		
HB0623	H-FPC PCI INT STS REG err [UBE]	To the register of the Fibre Channel Protocol Controller (H-FPC) LSI on the host side that must be accessed in units of four bytes, access was made in the other manner.	CTL Alarm Trace		
HB0800	Command end INI INT status error	An illegal operation, in which an interruption to terminate the execution of the command issued from the local DF to the remote DF occurred though there was no table concerned, occurred.	CTL Alarm Trace		
HB0900	Target abort INI INT status error	Inconsistency of termination statuses of a command issued from the local system to the remote system occurred. (The Fibre Channel Protocol Controller (H-FPC) LSI on the host side detected the target abort but the DMA did not.)	CTL Alarm Trace		
HB0A0x	H-FPC hardware error (Port-x)	The number of times that the host side Fibre Channel Protocol Controller (H-FPC) LSI performed the unexpected operations exceeded the threshold value. x : Port # (A-H)	CTL Alarm Trace	① Replace the Interface Board which installs the port displayed in the message. ② If not recovered, replace the Control Unit which installs the port displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HB0Bxy	H-FPC soft reset has ended in failure (Port-xy)	The software reset of the host side Fibre Channel Protocol Controller (H-FPC) LSI failed. x : Port # (A-H) y : Control Unit # (0-1)	Simple Trace		

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<table>
<tr><th>Message code</th><th>Message text</th><th>Description</th><th>Collect the error</th><th>Recovery methods</th><th>Reference page</th></tr>
<tr><td>HB0Cxz</td><td>H-FPC is not detected (CTL-x, I/F-y)</td><td>The Interface Board is installed, but the host side Fibre Channel Protocol Controller (H-FPC) LSI is not recognized on PCI.
x : Control Unit # (0-1)
y : Interface Board # (0-1)
z : Object port #
<table><tr><th>z</th><th>I/F #0</th><th>I/F #1</th></tr><tr><td>1</td><td>A</td><td>E</td></tr><tr><td>2</td><td>B</td><td>F</td></tr><tr><td>3</td><td>A, B</td><td>E, F</td></tr><tr><td>4</td><td>C</td><td>G</td></tr><tr><td>5</td><td>A, C</td><td>E, G</td></tr><tr><td>6</td><td>B, C</td><td>F, G</td></tr><tr><td>7</td><td>A, B, C</td><td>E, F, G</td></tr><tr><td>8</td><td>D</td><td>H</td></tr><tr><td>9</td><td>A, D</td><td>E, H</td></tr><tr><td>a</td><td>B, D</td><td>F, H</td></tr><tr><td>b</td><td>A, B, D</td><td>E, F, H</td></tr><tr><td>c</td><td>C, D</td><td>G, H</td></tr><tr><td>d</td><td>A, C, D</td><td>E, G, H</td></tr><tr><td>e</td><td>B, C, D</td><td>F, G, H</td></tr><tr><td>f</td><td>A, B, C, D</td><td>E, F, G, H</td></tr></table></td><td>CTL Alarm Trace</td><td>① Replace the Interface Board displayed in the message.</td><td>Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)</td></tr>
<tr><td></td><td></td><td></td><td></td><td>② If not recovered, replace the Control Unit displayed in the message.</td><td>Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)</td></tr>
<tr><td>HB0Dyy</td><td>FPC is not detected (CTL-x)</td><td>The detection of the Fibre Channel Protocol Controller (FPC) LSI failed.
x : Control Unit # (0-1)
y : Code
z : Chip error code
(y:z) =
<table><tr><th>y</th><th>z</th></tr><tr><td>01</td><td>Path-0</td></tr><tr><td>02</td><td>Path-1</td></tr><tr><td>03</td><td>Path-0/1</td></tr><tr><td>04</td><td>Path-2</td></tr><tr><td>05</td><td>Path-0/2</td></tr><tr><td>06</td><td>Path-1/2</td></tr><tr><td>07</td><td>Path-0/1/2</td></tr><tr><td>08</td><td>Path-3</td></tr><tr><td>09</td><td>Path-0/3</td></tr><tr><td>0A</td><td>Path-1/3</td></tr><tr><td>0B</td><td>Path-0/1/3</td></tr><tr><td>0C</td><td>Path-2/3</td></tr><tr><td>0D</td><td>Path-0/2/3</td></tr><tr><td>0E</td><td>Path-1/2/3</td></tr><tr><td>0F</td><td>Path-0/1/2/3</td></tr><tr><td>10</td><td>Path-0A</td></tr><tr><td>11</td><td>Path-0/Port-0A</td></tr></table></td><td>Simple Trace</td><td>① When “W01z0x CTL alarm” is displayed after this message, maintain it according to the message.</td><td>“Chapter 6. Warning Messages” (MSG 06-0000)</td></tr>
<tr><td></td><td></td><td></td><td></td><td>② In the case other than ①, replace the Control Unit displayed in the message.</td><td>Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)</td></tr>
</table>

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<table>
<tr><th>Message code</th><th>Message text</th><th>Description</th><th>Collect the error</th><th>Recovery methods</th><th>Reference page</th></tr>
<tr><td>HB0E00</td><td>Fatal iSCSI protocol chip error was detected (CTL-x, I/F-y, Code-z)</td><td>A PCIe failure or a fatal error such as hung-up occurred in iSCSI Protocol Chip.
x : Control Unit # (0-1)
y : Interface Board # (0-1)
z : Error factory code #
<table><tr><th>Code</th><th>Error factory</th></tr><tr><td>0</td><td>Fatal Error (Melformed TLP Status)</td></tr><tr><td>1</td><td>Fatal Error (Receiver Overflow Status)</td></tr><tr><td>2</td><td>Fatal Error (Flow Control Protocol Error Status)</td></tr><tr><td>3</td><td>Fatal Error (Data Link Protocol Error Status)</td></tr><tr><td>4</td><td>Heart Beat (Hardware Error)</td></tr><tr><td>5</td><td>Heart Beat (Chip Fatal Error)</td></tr></table></td><td>Simple Trace</td><td>①
1. When the ALARM LED on the front of the Basic Chassis lights up, replace the Interface Board displayed in this message.
2. If not recovered, replace the Control Unit displayed in the message.
②
1. When the ALM LED on the Control Unit displayed in this message lights up, replace the Interface Board displayed in this message.
2. If not recovered, replace the Control Unit displayed in the message.
③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.</td><td>Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
Replacement “2.2.7 Replacing Interface Board” (REP 02-0800)
Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
–</td></tr>
<tr><td>HB0F00</td><td>iSCSI protocol chip overheating was detected (CTL-x, I/F-y)</td><td>Abnormal temperature occurred in iSCSI Protocol Chip of the iSCSI interface.
x : Control Unit # (0-1)
y : Interface Board # (0-1)</td><td>Simple Trace</td><td>① Perform the maintenance according to the message text “W3Rxyz Interface Board alarm (CTL-w, I/F-z)” displayed at the same time.</td><td>–</td></tr>
</table>

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HD0100	DFPC error over [DFPCINM]	The Control Unit was detached because the number of errors of the Fibre Channel Protocol Controller (D-FPC) LSI on the drive side exceeded the threshold value.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HD020x	D-FPC hardware error (Path-x, Code-y)	The software reset of the Fibre Channel Protocol Controller (D-FPC) LSI on the drive side failed. x : Path # (0-7) y : Detailed code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HD0300	D-FPC detected PCI error	The Fibre Channel Protocol Controller (D-FPC) LSI on the drive side detected the PCI error.	Simple Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit which shows this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HD1100	HDU CDB check code error [RETRY]	The Control Unit was blocked since the retry NG occurred in the drive check code.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HD1200	HDU CDB check code error [OVER]	The Control Unit was blocked since the drive check code exceeded the threshold value.	CTL Alarm Trace		
HD21xy	Host transfer DMA error was over the threshold (CTL-x, DMA-y)	A hardware failure occurred in the CmdBrgS (Host_DMA) part of D-CTL LSI of the Control Unit. x : Control Unit # (0-1) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HD220x	CACHE error over (CACHE-x) [CRECT]	The occurrence count of cache correctable errors exceeded the threshold value by the DMA transfer. (during the dual system operation) x : Cache Unit # (0-3, *)	CTL Alarm Trace	When cache number is "0 to 3"	
				① Replace the Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				② If not recovered, replace the above Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				When cache number is "*"	
				① Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② If not recovered, replace all the Cache Units installed in the Control Unit concerned.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HD2400	DRR time-out	A time-out of the waiting for DRR completion occurred.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HD27xy	Drive transfer DMA error over (DMA-y)	Number of DMA hardware failures concerning data transfer to a drive exceeded the threshold value. x : 00 (DDR) 1y (DDMA) 2y (HDMA) FF (unknown) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace	① See Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
HD5Exy	Host transfer DMA error was detected (CTL-x, DMA-y)	A DMA hardware failure occurred in the data transfer between the host interface part of the Control Unit and the Cache memory. x : Control Unit # (0-1) y : D-CTL LSI port # (0-7, F)	CTL Alarm Trace		
HD5F00	DCTL hard error [OWN CTL]	An error occurred in the Control Unit in the own system during the DMA process for the Control Unit restoration.	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
HD5G00	DCTL hard error [OTH ER CTL]	An error occurred in the Control Unit in the other system during the DMA process for the Control Unit restoration.	CTL Alarm Trace	② In the case other than ①, replace the Control Unit which shows this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HE0710	Backend loop change error [OWN]	The loop switch was changed and the newly selected loop had a failure, too.	CTL Alarm Trace	① When the ALARM LED on the subsystem lights up, refer to see Troubleshooting "6.1.1 System Down".	Troubleshooting "6.1.1 System Down" (TRBL 06-0020)
				② When one of the following messages is displayed before this message, take recovery actions according to the message. • W01z0x "CTL alarm" • W09zab "HDU alarm" • W0Azab "SATA HDU alarm" • W0Bzab "Spare HDU alarm" • W0Czab "SATA Spare HDU alarm" • W0Fze0 "ENC alarm" • W0Gze0 "SENC alarm" • I30100 "HDU error" • I301AT "SATA HDU error"	–
				③ 1. When the subsystem fails to start, turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables from the Power Units of all subsystem.	–
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				④ Refer to Troubleshooting Chapter 8. "Trouble Analysis by LED Indication".	Troubleshooting "Chapter 8. Trouble Analysis by LED Indication" (TRBL 08-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HE0711	Backend loop change error [OTH]	The loop switch was changed and the newly selected loop had a failure, too	CTL Alarm Trace	① When the ALARM LED on the subsystem lights up, refer to see Troubleshooting "6.1.1 System Down".	Troubleshooting "6.1.1 System Down" (TRBL 06-0020)
				② When one of the following messages is displayed before this message, take recovery actions according to the message. • W01z0x "CTL alarm" • W09zab "HDU alarm" • W0Azab "SATA HDU alarm" • W0Bzab "Spare HDU alarm" • W0Czab "SATA Spare HDU alarm" • W0Fze0 "ENC alarm" • W0Gze0 "SENC alarm" • I30100 "HDU error" • I301AT "SATA HDU error"	–
				③ 1. When the subsystem fails to start, turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables from the Power Units of all subsystem.	–
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				④ Refer to Troubleshooting Chapter 8. "Trouble Analysis by LED Indication".	Troubleshooting "Chapter 8. Trouble Analysis by LED Indication" (TRBL 08-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HE0A31	BKW job time-out	Back end monitoring job finish waiting time-out occurred.	CTL Alarm Trace	① Turn on the power of the subsystem again.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② Replace the Control Unit indicated by "W01z0x CTL alarm" displayed after this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ When the ALARM LED on the front side of the Basic Chassis lights up, replace the Control Unit which shows this message.	
HE0C00	Controller thermal alarm [OWN]	The Control unit has been blocked due to detecting thermal alarm on its chipset.	Simple Trace	① 1. Check if the environment is set in accordance with the specifications.	–
HE0D00	Controller thermal alarm [OTH]	The other Control unit has been blocked due to detecting thermal alarm on chipset of the other control unit.	Simple Trace	2. Check if the fan is not in the state in which it has been given an alarm.	
				3. Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HE0E00	Controller thermal alarm [PSOFF]	The subsystem has performed normal power off due to exceeding thermal alarm threshold on chipset of ether Control units.	Simple Trace	① 1. Check if the environment is set in accordance with the specifications.	–
				2. Turn the power on and check if the fan is not in the state in which it has been given an alarm.	
				3. Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HE21xy	I/F board type error (CTL-x, I/F board-y)	An illegal value was detected when the installation status of the Interface Board was acquired with TWSI. Or unsupported Interface Board was installed. x : Control Unit # (0-1) y : Interface Board # (0-1)	Simple Trace	① When "W3Rxyz Interface Board alarm" is displayed immediately before this message, execute the recovery method in the message.	–
				② Check if the Interface Board displayed in the message is the one that supported by the firmware installed in the subsystem.	–
				③ When the Interface Board that is not supported is installed, replace it with the supported Interface Board.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				④ Check if the types of the Interface Boards are unified between the Control Units or the installation statuses are not different. When the types are different or the installation statuses are inconsistent, unify the Interface Boards.	–
				⑤ In case of the RKH, check if the installation position of the Interface Board is correct. If it is installed in the incorrect position, reinstall the Interface Board in the correct position.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board (4-2) In the case of RKH" (INST 02-0570)
				⑥ If not recovered, check if the Interface Board displayed in the message is not loosening. When it is loosening, reinstall the Interface Board.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				⑦ If the failure is not recovered, replace the Interface Board displayed in the message.	
				⑧ If not recovered yet, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HE2200	The power-on/off time-out of the array unit was detected (Unit-x)	Power ON or OFF of the Additional Chassis by electric power saving was not completed within the specified time. x : Unit ID # (0-59)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HE23xy	The initialization of PCI Express failed because of hardware error [Host] (CTL-x, I/F-y)	A failure between links of PCI-Express was detected in PCI-Express bus between D-CTL LSI of the Control Unit and the Host interface board. x : Control Unit # (0-1) y : Interface Board # (0-1)	CTL Alarm Trace	① Replace the Interface Board displayed in the message text "Interface Board alarm" which was displayed at the same time with this message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0100	Data transfer check error [SEGPOSERR]	(Data assurance check) An illegal cache writing segment position was detected.	CTL Alarm Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
HF0101	Data transfer check error [WRNODTYBK]	(Data assurance check) A block which was not dirty was written in the Disk Drive.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0102	Data transfer check error [RDDTYBLK]	(Data assurance check) Data were read into a dirty block.	CTL Alarm Trace		
HF0103	Data transfer check error [RDSEGERR]	(Input/Output data assurance check) An illegal segment to be read was detected.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② If not recovered, replace the Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HF0104	Data transfer check error [WSGQATERR]	(Data assurance check) Contradiction occurred in the queue attribute of the write segment.	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0105	Data transfer check error [WSEGPDEV]	(Input/Output data assurance check) An illegal Disk Drive to be written was detected.	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on. ②If not recovered, replace the all Cache Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HF0106	Data transfer check error [WSEGLOCK]	(Input/Output data assurance check) An illegal Disk Drive to be written was detected.	CTL Alarm Trace		
HF0107	Data transfer check error [CCPLUNERR]	(Data assurance check) An illegal LUN was detected when data were copied between Cache memories.	CTL Alarm Trace		
HF0108	Data transfer check error [CCPLBAERR]	(Data assurance check) An illegal LBA was detected when data were copied between Cache memories.	CTL Alarm Trace		
HF0109	Data transfer check error [PARLUNERR]	(Data assurance check) An illegal LUN was detected when parity was generated.	CTL Alarm Trace		
HF010A	Data transfer check error [PARLBAERR]	(Data assurance check) An illegal LBA was detected when parity was generated.	CTL Alarm Trace		
HF010B	Data transfer check error [QUEUEERR]	(Data assurance check) Contradiction occurred in transfer of the queue.	CTL Alarm Trace		
HF010C	Data transfer check error [COWDRVERR]	(Data assurance check) Data to be written together are dispersed in multiple Disk Drives.	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HF010D	Data transfer check error [LACHEKMOD]	(Data assurance check) Contradiction occurred in specification of LA check.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF010E	Data transfer check error [DSTP0SERR]	(Data assurance check) An illegal writing position was detected during destaging.	CTL Alarm Trace	② If not recovered, replace the all Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HF0112	Data transfer check error [CMPNGSP]	Data assurance check) A duplex compare of SGCB was detected. (Generation of parity)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on. ② If not recovered, replace the above Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0113	Data transfer check error [CMPNGCP]	Data assurance check) A duplex compare of SGCB was detected. (Copying between Cache memories)	CTL Alarm Trace		
HF0116	Data transfer check error was detected [SSGQATERR] (CTL-x)	(Data guarantee check) When trying to perform the DMA transfer of the LU data of RAID0+1, the firmware detected that the attribute of the segment queue, which manages the segment of the Cache Memory, was illegal. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HF0117	Data transfer check error [BUFSGQATERR]	A contradiction in the queue attribute of the buffer segment occurred.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0118	Data transfer check error WRBUFTODTY]	(Data assurance check) A writing of data in a buffer segment into a dirty block was attempted.	CTL Alarm Trace	② If not recovered, replace the all Cache Units.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HF0119	Data transfer check error was detected [MAPERR] (CTL-x)	The firmware detected that D-CTL LSI of the Control Unit transferred the block of the Cache memory. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF011A	Data transfer check error was detected [LOCLUERR] (CTL-x)	The firmware detected that D-CTL LSI of the Control Unit transferred the segment of the expected LU and the different LU. x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HF011B	Data transfer check error was detected [RMTLUERR] (CTL-x)	The firmware detected that the LU of the remote subsystem to execute the remote copy and the LU to perform the DMA transfer differ. x : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HF011C	Data transfer check error was detected [PAIRERR] (CTL-x)	The firmware detected the DMA transfer of the remote copy when a pair of the remote copy is other than "PAIR" and "COPY". x : Control Unit # (0-1)	CTL Alarm Trace		
HF020x	Directory check error (CTL-x)	An uncorrectable contradiction was detected in a cache directory. x : Control Unit # (0-1)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF0300	Data transfer check error [STGLUNERR]	(Data assurance check) A LUN error was detected during a staging.	CTL Alarm Trace	② If not recovered, replace the Cache Units.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HF0400	Data transfer check error [NTMPRD]	(Data assurance check) A LUN error was detected during a staging.	CTL Alarm Trace		
HF050x	Data transfer check error was detected [DTYMPERR] (CTL-x)	(Data guarantee check) The firmware detected that the dirty map, which manages the dirty data of the Cache memory, was illegal. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HF0700	Data transfer check error [LU OWNERSHIP]	(Data guarantee check) It was detected that the DMA transfer tried to operate illegally for the LU without owner right.	CTL Alarm Trace	① 1. When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				2. If not recovered, replace the all Cache Units.	Replacement “2.2.6 Replacing Cache Unit” (REP 02-0640)
				② 1. When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
				2. If not recovered, replace the all Cache Units.	Replacement “2.2.6 Replacing Cache Unit” (REP 02-0640)
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HF080x	ENC recovery failed [Linkup NG] (CTL-x)	The recovery of the ENC part of the Control Unit failed because the ENC part of the inserted Control Unit was not registered in the discover map of the backend. x : Control Unit # (0-1)	CTL Alarm Trace	①Replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HF100x	Data transfer check error [RDSEGERR]	A segment error was detected in the Disk Drive which tried to execute read. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HF110x	Data transfer check error [WSEGPDEV]	A segment error was detected in the Disk Drive which tried to execute write.	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HG0100	CTL communication send time-out	Communication receiving waiting time-out occurred.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HG0210	OTH CTL Response time-out [CMDFMWR]	Time-out occurred in communication of request for updating the flash memory of the other system. (CMD)	CTL Alarm Trace		
HG0311	OTH CTL Response time-out [OFW]	Communication waiting time-out occurred in the other system during off-line monitoring.	CTL Alarm Trace		
HG0312	Resource release time-out	General resource release waiting time-out occurred.	CTL Alarm Trace		
HG0413	Data share job time-out	Job time-out occurred for request for share.	CTL Alarm Trace		
HG0514	LU-CTL change time-out	Time-out occurred while LU was changed.	CTL Alarm Trace		
HGA000	Staging job time-out	A time-out occurred because a staging job was not completed within a certain period.	Simple Trace		
HGA100	Data staging time-out	A time-out of waiting for staging completion occurred during the Copy-on-write SnapShot restoration copy job.	CTL Alarm Trace		
HGA200	Data pool copy time-out	A time-out of waiting for Copy-on-write SnapShot copy completion occurred during the Copy-on-write SnapShot restoration control job.	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HGA300	Data restore time-out	A time-out of waiting for restore copy completion occurred during the Copy-on-write SnapShot restoration control job.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HGA400	Data pool wait time-out	A time-out of waiting for the pool resource ensuring occurred during the Copy-on-write SnapShot restoration control job.	CTL Alarm Trace		
HGA50x	Resource release time-out was detected [Core] (CTL-x)	The securing timed out because the shared resource (integrated resource) between the cores of MPU is not released. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HGA60x	The forced DMA#0 suspend process timed out (CTL-x)	[D-DMA Transfer Failure] The DMA transfer terminated abnormally involved in a DMA transfer failure of other ID. x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH010x	System parameter undefined (CTL-x)	A system parameter is not set. x : Control Unit # (0-1)	CTL Alarm Trace	① Set the system parameter correctly in the WEB maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
HH030x	FLASH-RAM program I/F error (CTL-x)	Illegal interface between the flash boot program and RAM program was detected. x : Control Unit # (0-1)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH0400	Unsupported function enabled	A function which the system did not support was set.	CTL Alarm Trace	① Set the system parameter correctly in the WEB maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
HH0510	Task make error [INMTSKERR]	Generation of the initial setting task failed.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH0620	JOB make error	Generation of a job at start up failed.	CTL Alarm Trace		
HH0930	No system HDU	The system area of the all Disk Drives became unavailable.	CTL Alarm Trace	① Contact the Technical Support Center.	–
HH0931	No system HDU	Information on takeover in the system area for all Disk Drives became unusable.	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH0A40	System HDU access error	Since access could not be made to the system area of the all Disk Drives because of a system area access error, the Control Unit was blocked.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH0C00	HDU removed before PS ON (Unit-x, HDU-y)	The Disk Drive used until previous operation is not mounted when P/S is turned on. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
HH0CAT	SATA HDU removed before PS ON (Unit-x, HDU-y)	The Disk Drive used until previous operation is not mounted when P/S is turned on. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	② Remove the power cables from the Power Units of all subsystem.	–
				③ When the Disk Drive is not installed in the installation position of the Disk Drive displayed in the message, install the Disk Drive of the same model name as the Disk Drive installed in the Ready status. When it is installed, replace the Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				④ Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH0E0x	CACHE access error (CACHE-x) [PON]	A cache access error (unrecoverable) occurred when P/S was turned on. x : Cache Unit # (0-3)	CTL Alarm Trace	① Replace the Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				② If not recovered, replace the above Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH0Fxx	RKA removed before PS ON (Unit-x)	The additional frame which the Disk Drive used last time belonged to was not connected when the power was turned on. x : Unit ID # (1-59)	Simple Trace	① Make sure that the Additional Chassis is installed and connected, and then start up the subsystem again.	–
				② Analyze the failure following Troubleshooting "8.1 Trouble Analysis by LED Indication of Front Bezel" for the Unit # concerned.	Troubleshooting "8.1 Trouble Analysis by LED Indication of Front Bezel" (TRBL 08-0000)
HH1070	PIN segment error [PINSEGOV]	Cache segments are insufficient for recovery of the PIN data of the information taken over.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH1180	DCTL hard error [PS ON]	A DMA hardware failure occurred while PS is turned on.	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH1290	System down selected [USRDATLST]	When data were lost, system shutdown was selected by the user.	CTL Alarm Trace	① See Troubleshooting "6.1.2 The Subsystem does not become Ready : Case 1 (Loading Failure)".	Troubleshooting "6.1.2 The Subsystem does not become Ready : Case 1 (Loading Failure)" (TRBL 06-0050)
HH12A0	Forced parity correction time-out	Time-out occurred during forced parity correction operation while P/S is turned on.	CTL Alarm Trace	① Replace the Disk Drive. When you want to know a model name of the Disk Drive or a revision of the drive firmware, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
				② Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH13B0	System change failed [PIN]	The upgrade cannot be made because a pinned segment exists in the state in which the system change has not been made normally.	CTL Alarm Trace	① Return the Disk Drive to the subsystem of the lower grade model and reboot the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② Make the upgrade again after eliminating the pinned segment.	–
HH13B1	System change failed [PSOFF]	The upgrade cannot be made because the system change has not been made normally.	CTL Alarm Trace	① Return the Disk Drive to the subsystem of the lower grade model and reboot the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② Make the upgrade again after performing the deliberate shutdown.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
HH16D0	CTL recovery failed [DRR ERR]	The DRR failure was detected when the Control Unit was inserted in the state in which the subsystem power was on, and then the cache memory of the inserted Control Unit was being restored.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH1A00	ENC recovery NG HDD-NG (Unit-x, HDU-y or z)	Though recovery of the Control Unit (in the basic frame) was attempted, it failed because a failure occurred in the Disk Drive (y or z) connected to the ENC. x : Unit ID # (0-59) y or z : Disk Drive # (0/2, 1/3)	CTL Alarm Trace	① Insert the Control Unit again after making the recovery by replacing the Disk Drive (y or z).	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH1B0x	ENC recovery NG HDD-NG (CTL-x)	Though recovery of the Control Unit (in the Basic Chassis) was attempted, it failed because a failure occurred in the ENC. x : Control Unit # (0-1)	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH1J00	ENC error inf. [CUDG ECTLREGERR]	The Control Unit was detached because an CUDG ECTL register error occurred in the ENC.	CTL Alarm Trace		
HH1K00	ENC error inf. [CUDG ENC RDYTOV]	A ready time-out of the ENC in another system was detected.	CTL Alarm Trace		
HH1L00	ENC error inf. [CUDG SRAMERR]	The Control Unit was detached because an CUDG SRAM Parity error occurred in the ENC.	CTL Alarm Trace		
HH1M00	ENC error inf. [CUDG ENCCOMERR]	The Control Unit was detached because an CUDG ENCCOMERR error occurred in the ENC.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH1N00	ENC error inf. [ENCCOMERR]	The Control Unit was detached because an CUDG ENCCOMERR error occurred in the ENC.	CTL Alarm Trace	② If not recovered yet, contact the Technical Support Center. (*1)	–
HH1P00	ENC error inf. [ECTL force test]	The Control Unit was detached because an parity error occurred in the ENC.	CTL Alarm Trace		
HH1Q00	SES error inf. [SES-HDU error]	The Control Unit was detached because both of the two SES drives could not access the ENC.	CTL Alarm Trace		
HH1W00	ENC inf. [REGPERR]	REGPERR occurred in ENC and the corresponding CTL was detached.	CTL Alarm Trace		
HH1X00	ENC inf. [RAMPERR]	RAMPERR occurred in ENC and the corresponding CTL was detached.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH1Y00	ENC inf. [WDTCNTPERR]	WDTCNTPERR occurred in ENC and the corresponding CTL was detached.	CTL Alarm Trace		
HH1Z0x	ENC recovery NG Loop-NG (CTL-x,)	An ENC recovery failure (Basic Chassis) x : Control Unit # (0-1)	Simple Trace	① Collect Simple trace and contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)

*1 : If ALM LED (red) lights on, and the same message is displayed again in spite of replacing the Control Unit in ①, the Control Unit on the opposite side may have a failure. Replace the Control Unit on the opposite side with the power turned off after checking with the customer.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH270x	I/F Board is not installed (CTL-x)	The Interface Board is not installed. x : Control Unit # (0-1)	CTL Alarm Trace	① When the Interface Board is not installed in the Control Unit displayed in the message, install the Interface Board in the Control Unit.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board" (INST 02-0550)
				② When the Interface Board is installed in the Control Unit displayed in the message, replace the Interface Board.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				③ If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH2900	Cache capacity reduced although copy function enable	The cache capacity was reduced in the state in which any one of the copy functions (TrueCopy remote replication, TrueCopy Extended Distance, ShadowImage in-system replication, Copy-on-write SnapShot, and Modular Volume Migration) was valid.	Full Dump	① Return the cache capacity to that at the time when the power was turned off.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HH2B00	Upgrade failed [PSOFF]	The upgrade from the lower grade model to the higher grade model cannot be made because the deliberate shutdown has not been performed.	Simple Trace	① 1. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				2. Set "Install Guard" displayed in http:/IPaddress/instlgrd to [Disable], select the lower model, and click the [Change] button.	–
				3. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB "3.6 Other" (WEB 03-0530)
				4. Set [Down Grade Check] of the [Others] window to "Disable".	
				5. Install the same firmware as the lower model (update installation).	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				6. Do the upgrading installation of the firmware for the lower grade model after disabling the installation guard.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Return the hardware configuration to that of the lower grade model.	–
				8. Perform the deliberate shutdown of the subsystem after booting it while it is the lower grade model.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				9. Execute the procedure for the upgrade from the lower grade model to the higher grade model.	–
HH2C00	Upgrade failed [Single]	The upgrade from the lower grade model to the upper grade model could not be made because the “System Startup Attribute” was set as the “Single Mode”.	Simple Trace	① 1. Do the upgrading installation of the firmware for the lower grade model after disabling the installation guard.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
				2. Power off the subsystem after the updating installation is completed.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				3. Return the hardware configuration to that of the lower grade model.	–
				4. Change the mode to the Maintenance mode after booting the subsystem while it is the lower grade model.	WEB “3.1 Transferring to the Maintenance Mode” (WEB 03-0000)
				5. Execute the “Go to Normal Mode” after setting the “System Setup Attribute” as the “Dual Active Mode”.	WEB “3.2.1 Subsystem” (WEB 03-0070)
				6. Boot the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				7. Execute the procedure for the upgrade from the lower grade model to the higher grade model.	–
HH2D00	Upgrade failed [Microprogram revision]	The upgrade from the lower grade model to the higher grade model cannot be made because the versions of their firmware are different from each other.	Simple Trace	① Install the firmware of the higher grade model, whose system revision is the same as that of the firmware of the lower model, in the Disk Drive.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH2F00	Downgrade failed [Subsystem can not take over the user data]	The subsystem start-up of the lower model failed because it tried to downgrade from the upper model to the lower model.	Simple Trace	① Execute the initial setup to the subsystem that is the hardware configuration of the lower model, and start up the subsystem when operating the subsystem as a lower model.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② If you operate the subsystem as an upper model, upgrade the hardware configuration of the subsystem to the upper model.	–
				③ When the interface board or control unit of RKEXSA was replaced, contact the Technical Support Center.	–
				④ When the interface board or control unit of RKS was replaced, contact the Technical Support Center.	–
				⑤ Connect the power cables to all Power Units of the subsystem.	–
				⑥ Start the subsystem of the upper model.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH2Q00	CTL recovery failed [time-out]	The recovery of the Control Unit was not completed within the specified time by rebooting the Control Unit due to replacement of the Control Unit with the subsystem power turned on, update installation of the firmware, or automatic recovery of the blocked Control Unit.	CTL Alarm Trace	① 1. Remove the Control Unit whose recovery reboot fails and ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. Check if the size, the slot position and the number of the Cache Units to be installed in the removed Control Unit are correct.	–
				3. •When the installation of the Cache Units is incorrect, install the Cache Units in the Control Unit correctly. Then install the Control Unit again. •When the installation of the Cache Units is correct, replace the removed Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				4. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				5. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				6. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH490x	SENC error [Queue Full] (CTL-x)	Queue Full occurred in the SENC section of the Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH600x	ENC error inf. [Header error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the header of the acquired SES data was abnormal. x : Control Unit # (0-1)		–	–
HH610x	ENC error inf. [Fixed No. error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the fixed value of the acquired SES data was abnormal. x : Control Unit # (0-1)		–	–
HH620x	ENC error inf. [SES Rev. error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the SES revision information of the acquired SES data was abnormal. x : Control Unit # (0-1)		–	–
HH630x	ENC error inf. [F/W Rev. error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the revision information of the ENC firmware of the acquired SES data was abnormal. x : Control Unit # (0-1)		–	–
HH640x	ENC error inf. [ECTL Rev. error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the revision information of ECTL of the acquired SES data was abnormal. x : Control Unit # (0-1)		–	–
HH650x	ENC error inf. [ENC Reboot error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the ENC was rebooting from the acquired SES data asynchronously with the firmware. x : Control Unit # (0-1)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH660x	ENC error inf. [Slot No. error] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that the ENC number of the acquired SES data did not match with the accessed ENC number. x : Control Unit # (0-1)		–	–
HH6700	ENC error inf. [CUDG error code-y] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that a CUDG error had occurred in the ENC from the SES data acquired by other system. x : Control Unit # (0-1) y : Optional code		–	–
HH6800	ENC error inf. [PK error code-y] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that a PK failure had occurred in the ENC from the acquired SES data. x : Control Unit # (0-1) y : Optional code		–	–
HH6900	ENC error inf. [SXP error code-y] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that an SXP failure had occurred in the ENC from the acquired SES data. x : Control Unit # (0-1) y : Optional code		–	–
HH7000	ENC error inf. [Write error code-y] (CTL-x)	The Control Unit displayed in the message was blocked because it was detected that an SES write failure had occurred in the ENC from the acquired SES data. x : Control Unit # (0-1) y : Optional code		–	–
HH710x	ENC error inf. [Write error] (CTL-x)	The ENC displayed in the message was blocked because it was detected that the write data to the ENC did not match with the read data from the ENC in the processing command to the ENC. x : Control Unit # (0-1) y : Optional code		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH720x	ENC recovery failed (CTL-x)	The ENC Unit replacement failed due to an ENC failure. x : Control Unit # (0-1)	Simple Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH730x	ENC error inf. [Remove] (CTL-Y)	The ENC Unit was removed. x : Control Unit # (0-1)		–	–
HH740x	The backend PCI error count exceeded the threshold (CTL-x)	The number of failures occurred exceeded the threshold value while performing PCI HARD RESET of the backend part of the Control Unit. x : Control Unit # (0-1)	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH750x	Backend link error was detected (CTL-x)	The subsystem specified that the backend Link failed part was the Control Unit displayed in the message. x : Control Unit # (0-1)		③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH7600	Backend down [ENC type error] (Unit-x, ENC-y)	When the subsystem started, an unsupported ENC Unit or Additional Chassis was detected in the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. Remove the power cables of the Power Units of all the subsystems.	–
				2. Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				3. Connect the power cables to the Power Units of all the subsystems.	–
				② 1. Remove the power cables of the Power Units of all the subsystems.	–
				2. Replace the Additional Chassis displayed in the message to the Additional Chassis supported by the relevant system.	Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				3. Connect the power cables to the Power Units of all the subsystems.	–
HH7700	Backend down [Cable error] (Unit-x, ENC-y)	When the subsystem started, an improper connection of the ENC cable of the Additional Chassis was detected. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. Check the wiring of the ENC cables connected to the chassis displayed in the message, and wire the ENC cables correctly again.	–
				2. Remove the power cables of the Power Units of all the subsystems.	–
				3. Connect the power cables to the Power Units of all the subsystems.	–
				4. Turn on the Power Unit of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
HH7800	The array unit is missing (Unit-x)	The Additional Chassis displayed in the message was unable to be recognized temporarily or constantly due to a Power Unit failure (including the case that the power of the additional chassis was turned off when the subsystem was Ready). x : Unit ID # (0-59)		① Perform the maintenance according to Troubleshooting “6.1.20 Recovery Method when a Power Unit Failure of the Additional Chassis Occurred”.	Troubleshooting “6.1.20 Recovery Method when a Power Unit Failure of the Additional Chassis Occurred” (TRBL 06-0950)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH7900	More than the maximum number of array units are connected	The Additional Chassis more than or equal to the connectable number was detected when the subsystem started.		① 1. Turn off the Power Units of all subsystems.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Remove the power cables from the Power Units of the subsystem.	–
				3. Review the number of Additional Chassis connected to the subsystem so that the number of Additional Chassis does not exceed the maximum number.	–
				4. Install the power cables to the Power Units of the subsystem.	–
				5. Turn on the Power Unit of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH7C0x	H-IPC firmware boot up failed (CTL-x)	A start of the iSCSI firmware failed. x : Control Unit # (0-1)	Simple Trace	① Replace the iSCSI Interface Board installed in the Control Unit displayed in the message. ② If not recovered, replace the Control Unit in which the replaced iSCSI Interface Board is installed.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH7Dxy	Microprogram error [ISM]	Logical illegality was detected in the firmware. (iSCSI Sequence Manager) x : Detailed code y : Detailed code	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message. ② When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	"Chapter 6. Warning Messages" (MSG 06-0000) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH7Exy	Microprogram error [ILM]	Logical illegality was detected in the firmware. (iSCSI login control) x : Detailed code y : Detailed code	CTL Alarm Trace		
HH7Fxy	Microprogram error [ISD]	Logical illegality was detected in the firmware. (iSCSI driver) x : Detailed code y : Detailed code	CTL Alarm Trace		
HH7Gxy	H-IPC soft reset has ended in failure (Port-xy)	A soft reset of the H-IPC (Host iSCSI Protocol Controller) LSI failed. x : Control Unit # (0-1) y : Port # (0 : A, 1 : B, 4 : E, 5 : F)	Simple Trace	① Replace the iSCSI Interface Board which installs the Port number displayed in the message. ② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH7Hxy	H-IPC hardware error (Port-xy)	The number of times, which the H-IPC (Host iSCSI Protocol Controller) LSI operated outside assumption, exceeded the threshold value. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Replace the iSCSI Interface Board installed in the Control Unit displayed in the message. ② If not recovered, replace the Control Unit in which the replaced iSCSI Interface Board is installed.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH7I0x	iSCSI firmware load failed (CTL-x)	Loading of the iSCSI firmware failed. x : Control Unit # (0-1)	Simple Trace		
HH7J00	H-IPC is not detected (Port-xy)	The iSCSI Interface Board is installed, but the H-IPC (Host iSCSI Protocol Controller) LSI cannot be recognized on the PCI. x : Control Unit # (0-1) y : Port # (A-H)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH7L00	ENC error inf. [LPFO]	Since LPF0 (fail-over of SENC internal path) was detected, it was judged that the SENC part failure of the Control Unit occurred.	CTL Alarm Trace	①When "I5FE00 Connectivity path failure of SENC occurred" is displayed after this message, maintain it according to the message.	–
				②1. Replace the Control Unit pointed out by "W01z0x CTL alarm" displayed after this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. If not recovered yet, replace the Control Unit after collecting the simple trace from the operating Control Unit (you cannot replace it with the subsystem power turned on).	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH7N00	H-IPC PCI STS REG error [OPE]	A parity error was detected when the H-IPC LSI accessed the internal Cache.	CTL Alarm Trace	①There is no problem when the ALM LED does light up because the internal retry processing was executed in the Control Unit.	–
HH7P00	H-IPC PCI STS REG error [ILE]	A parity error was detected when the H-IPC LSI accessed the internal RAM.	CTL Alarm Trace		
				②When the ALM LED on the Control Unit displayed in the message does not light up, replace the 1Gbps iSCSI Interface Board installed in the Control Unit.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
HH7Q00	H-IPC PCI STS REG error [ICE]	A parity error was detected when the H-IPC LSI accessed the internal RAM.	CTL Alarm Trace		
HH7R00	H-IPC PCI STS REG error [OCE]	A Cache parity error was detected when the H-IPC LSI accessed the external local RAM.	CTL Alarm Trace	①There is no problem when the ALM LED does not light up because the internal retry processing was executed in the Control Unit.	–
HH7S00	H-IPC PCI STS REG error [DPE]	A data parity error was detected when it accessed the PCI as the PCI master.	CTL Alarm Trace		
				②When "W01z0x CTL alarm" is displayed after this message, replace the Control Unit and the 1Gbps iSCSI Interface Board installed in the Control Unit, which are instructed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				③When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit displayed in the message and the 1Gbps iSCSI Interface Board installed in the Control Unit whose ALM LED lights up.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH7U00	H-IPC PCI ECC error	The number of times of the ECC error, which was detected when the H-IPC LSI accessed the internal RAM, exceeded the threshold value.	CTL Alarm Trace	① Replace the iSCSI Interface Board which is installed in the Control Unit shown by "W01z0x CTL alarm" displayed after this message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the iSCSI Interface Board installed in the Control Unit displayed in the message.	
HH7V00	The Additional Chassis removed before PS ON (Unit-x)	Subtract the subsystem in which the Disk Drive to configure the formatted logical unit or the Spare Disk Drive storing the recovered data is installed, then turn on the subsystem power. x : Unit ID # (1-59)	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables from the Power Units of all subsystem.	–
				3. Return the subtracted subsystem to the subsystem configuration before the subtraction.	–
				4. Turn on the subsystem power.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				5. If there is the Spare Disk Drive in use in the subsystem to be subtracted, replace the blocked Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				6. Check that the copy back operates and the status of the Spare Disk Drive becomes ready.	–
				7. If there is the Disk Drive which configures the formatted logical unit in the subsystem to be subtracted, check with the user if the data of the logical unit is necessary. If the data is necessary, request the user to backup the data.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				8. Delete the logical unit.	System Parameter "[Procedure ③-D]Deleting LU" (SYSPR 03-0260)
				9. Subtract the subsystem again.	Addition/Removal/ Relocation "2.3 Removing Additional Subsystem on Rack Frame" (ADD 02-0130)
				10. When the subsystem of the unit ID# displayed in the message is connected, perform Troubleshooting "8.1 Trouble Analysis by LED Indication of Front Bezel".	Troubleshooting "8.1 Trouble Analysis by LED Indication of Front Bezel" (TRBL 08-0000)
HH7Wxy	H-IPC firmware initialization failed (CTL-x, I/F-y)	The iSCSI firmware failed to start. x : Control Unit # (0-1) y : Interface Board # (0-1)	Simple Trace	① Replace the Inter face Board displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH800x	RKAKX recognition failed during the start-up process [BKW] (CTL-x)	The Control Unit displayed in the message detected an error of the RKAKX recognition while starting the subsystem, and the Control Unit start-up stopped due to the Control Unit blockade. x : Control Unit # (0-1)		① Perform the maintenance according to the message code displayed at the same time.	–
HH8100	Product number error was detected [discrepancy between ENCs of RKAKX] (RKAKX- (xx-y))	The serial number of the RKAKX did not match between the ENCs. x : RKAKX Chassis #(0-18) y : A = A-side B = B-side		① 1. Record the A-side or B-side displayed in the message.	–
				2. Turn off the power of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				3. Replace the ENC Unit of the RKAKX displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH8E00	Single Mode although copy function enable	The subsystem could not be started because System Startup Attribute was set to Single Mode even though Copy-on-write SnapShot or TrueCopy Extended Distance of the priced option was effective.	Simple Trace	① 1. Change the subsystem to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				2. Change [System Startup Attribute] of System Parameter to [Dual Active Mode] from WEB.	WEB "3.2.1 Subsystem" (WEB 03-0070)
				3. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
HH8F00	Not enough Cache memory to use copy function	The subsystem did not start because the capacity of the Cache memory to use Copy-on-write SnapShot or TrueCopy Extended Distance was insufficient due to the upgrade of the model.	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Add the Cache memory in the capacity that the upgrade of the model is possible.	Addition/Removal/ Relocation "1.4.4 Adding a Cache Unit" (ADD 01-0390)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH8G00	Single Mode although Modular Volume Migration enable	The subsystem could not be started because System Startup Attribute was set to Single Mode even though Modular Volume Migration of the priced option was effective.	Simple Trace	① 1. Change the subsystem to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				2. Change [System Startup Attribute] of System Parameter to [Dual Active Mode] from WEB.	WEB "3.2.1 Subsystem" (WEB 03-0070)
				3. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH8H00	ShadowImage function is not effective when single mode for CTL is set	Although "ShadowImage in-system replication" of the priced option is valid, the subsystem could not start because the system start attribute of the system parameter was set to the single mode.	Simple Trace	① 1. Change the subsystem to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				2. Change [System Startup Attribute] of System Parameter to [Dual Active Mode] from WEB.	WEB "3.2.1 Subsystem" (WEB 03-0070)
				3. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				4. • When using "ShadowImage in-system replication" of the priced option, set up the subsystem to a dual controller system. • When using the subsystem as a single controller system, lock "ShadowImage in-system replication" of the priced option, and then set up the subsystem to a single controller system.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH8J00	The system drives are composed of SAS HDUs and SATA HDUs.	The SAS Disk Drives, the SAS7.2K Disk Drives and the SATA Disk Drives are mixed in the system drive.	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Configure the system drive again only with the Disk Drives which have the same I/F.	–
				3. Turn on the subsystem power again.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH8K00	TrueCopy function is not effective when single mode for CTL is set	Although "TrueCopy remote replication" of the priced option is valid, the subsystem could not start because the system start attribute of the system parameter was set to the single mode.	Simple Trace	① 1. Change the subsystem to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				2. Change [System Startup Attribute] of System Parameter to [Dual Active Mode] from WEB.	WEB "3.2.1 Subsystem" (WEB 03-0070)
				3. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				4. • When using "TrueCopy remote replication" of the priced option, set up the subsystem to a dual controller system. • When using the subsystem as a single controller system, lock "TrueCopy remote replication" of the priced option, and then set up the subsystem to a single controller system.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH8L0x	D-SPC detected the internal hardware error (CTL-x)	D-SPC (Drive side SAS Protocol Chip) detected "internal hardware error" of D-SPC LSI. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH8M0x	D-SPC detected DMA transfer (CTL-x)	D-SPC (Drive side SAS Protocol Chip) detected an error of Tx/Rx DMA transfer. x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH8N0x	Open Failure Bad Destination (CTL-x)	EXPANDER PHY responded to a failure of OPEN. x : Control Unit # (0-1)	CTL Alarm Trace		
HH8P0x	Open Failure Wrong Destination (CTL-x)	OPEN failed and PHY responded because the results that performed routing of EXPANDER differed. x : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH8Q0x	Open Failure Protocol Not supported (CTL-x)	OPEN failed and PHY responded due to the unsupported protocol. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH8R0x	Open Failure STP Resource Busy (CTL-x)	The STP resource became BUSY. x : Control Unit # (0-1)	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH8S0x	Nexus Loss (CTL-x)	OPEN failed due to other factors. x : Control Unit # (0-1)	CTL Alarm Trace		
HH8T0x	Sas ctl resource was over (CTL-x)	It became an error because the internal resource of SAS_CTL was exceeded. x : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH8U0x	D-SPC detected firmware error (CTL-x)	The hardware detected FW defect. x : Control Unit # (0-1)	CTL Alarm Trace		
HH8V0x	The initialization of PCI Express failed because of the hardware error [Drv] (CTL-x)	PCI hardware reset of D-SPC (Drive side SAS Protocol Chip) failed. x : Control Unit # (0-1)	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH8W00	Backend has been down [All the routes have been blockaded]	Failures occurred in both Routes (Normal Route and Alternate Route) and the Control Unit was not be able to access the Disk Drives.	Full Dump	① Turn off the main switch.	–
				② Perform maintenance according to the warning message displaying the blocked ENC Unit or Control Unit.	–
				③ Turn on the subsystem power.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH8X0x	D-SPC LSI received illegal SMP response frame (CTL-x)	D-SPC (Drive side SAS Protocol Chip) received an illegal SMP response frame. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH8Y0x	D-SPC LSI received SMP response which indicated the command was not completed (CTL-x)	D-SPC (Drive side SAS Protocol Chip) received an SMP response frame from Expander normally, but the status of the command stored in the frame indicated abnormal termination. x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH8Z0x	D-SPC LSI received illegal discover sas nodes (CTL-x)	D-SPC (Drive side SAS Protocol Chip) received an illegal SMP response frame from Expander or detected a time-out of SMP frame reception from Expander. x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH900x	D-SPC LSI detected SMP response frame error (CTL-x)	It received an illegal SMP response frame or detected a time-out of SMP frame reception. x : Control Unit # (0-1)	Simple Trace		
HH910x	ENC error count was over the threshold (CTL-x)	The sense key was the check condition of 4 (hardware error) or 5 (illegal request), and the count of either received check condition exceeded the threshold among the SCSI statuses from Expander. x : Control Unit # (0-1)	Simple Trace		
HH920x	Backend diagnosis time-out was detected [code-x]	The diagnosis of the backend part was not completed within the specified time. x : Optional code			
HH930x	SCSI response of ENC was "BUSY" (CTL-x)	Expander responded "busy" for the status of the SCSI command response (SCSI STATUS ERROR BUSY (Expander)). x : Control Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH940x	SCSI response of ENC was “QUEUE FULL” (CTL-x)	Expander responded “Queue full” for the status of the SCSI command response. (SCSI STATUS ERROR QUEUE_FULL (Expander)) x : Control Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message code “W01z0x CTL alarm” displayed at the same time.	“Chapter 6. Warning Messages” (MSG 06-0000)
HH950x	Expander error of the CTL was detected [04-3400] (CTL-x)	The ENC part of the Control Unit responded the check condition frame whose sense key/sense code is 04/3400. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
HH960x	Intermittent Expander error of the CTL was over the threshold [04-3400] (CTL-x)	The count that received the check condition frame, whose sense key/sense code is 04/3400, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH970x	Expander error of the CTL was detected [05-*****] (CTL-x)	The ENC part of the Control Unit responded the check condition frame whose sense key/sense code is 05/****. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				④ When this message is displayed at the time of downloading the Online ENC Firmware, load the ENC firmware into the maintenance PC again.	Troubleshooting "12.6.3 Online ENC Firmware Download" (TRBL 12-0120)
				⑤ Download the Online ENC Firmware again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH980x	Intermittent Expander error of the CTL was over the threshold [05-****] (CTL-x)	The count that received the check condition frame, whose sense key/sense code is 05/****, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH990x	Expander error of the CTL was detected [05-CCCC] (CTL-x)	The ENC part of the Control Unit responded the check condition frame whose sense key/sense code is 05/CCCC. x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH9A0x	Intermittent Expander error of the CTL was over the threshold [05-CCCC] (CTL-x)	The count that received the check condition frame, whose sense key/sense code is 05/CCCC, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH9B0x	Expander error of the CTL was detected [0B-4400] (CTL-x)	The ENC part of the Control Unit responded the check condition frame whose sense key/sense code is 0B/4400. x : Control Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9C0x	Intermittent Expander error of the CTL was over the threshold [0B-4400] (CTL-x)	The count that received the check condition frame, whose sense key/sense code is 0B/4400, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HH9D0x	Expander error of the CTL was detected [0B-4B**] (CTL-x)	The ENC part of the Control Unit responded the check condition frame whose sense key/sense code is 0B/4B**. x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HH9E0x	Intermittent Expander error of the CTL was over the threshold [0B-4B**] (CTL-x)	The count that received the check condition frame, whose sense key/sense code is 0B/4B**, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HH9F0x	Expander error of the CTL was detected [Unexpected SSB] (CTL-x)	The ENC part of the Control Unit transmitted the check condition frame to which an unexpected sense key is set. x : Control Unit # (0-1)	Simple Trace		
HH9G0x	Intermittent Expander error of the CTL was over the threshold [Unexpected SSB] (CTL-x)	The count that received the check condition frame, to which an unexpected sense key is set, from the ENC part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Simple Trace		
HH9H00	Backend down [Unit#ERR] (Unit-x)	When the subsystem started, the Additional Chassis whose Unit # is inconsecutive was detected (for example, the case that the rearmost chassis was connected to the Path incorrectly due to connecting the ENC cable incorrectly). x : Unit ID # (0-59)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.19 Recovery Method when the Subsystem Down of the Array Occurred due to the Incorrect ENC Cable Connection".	Troubleshooting "6.1.19 Recovery Method when the Subsystem Down of the Array Occurred due to the Incorrect ENC Cable Connection" (TRBL 06-0930)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9I0x	Backend down [ENC type error] (CTL-x)	When the subsystem started, an unsupported ENC part was detected in the Control Unit of the chassis. x : Control Unit # (0-1)		① 1. Remove the power cables from the Power Units of all the subsystems.	–
				2. Replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				3. Connect the power cables to the Power Units of all the subsystems.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
HH9J00	The array unit was missing (CTL-Unit)	The Basic Chassis was unable to be recognized temporarily due to a Power Unit failure.		① 1. Turn off the main switch.	–
				2. Remove the power cables from the Power Units of all the subsystems.	–
				3. Connect the power cables to the Power Units of all the subsystems.	–
				4. Turn on the power of the subsystem again.	–
				5. Check that the READY LED (green) on the subsystem lights up and the WARNING LED (orange) does not light up or blink, and “I10000 Subsystem is ready” is displayed in the Information message on WEB.	–
				6. When you were unable to check it, perform the maintenance according to the message displayed in the Information Message on WEB.	–
HH9K0x	ENC error was detected [Linkdown] (CTL-x)	Link down was detected in the ENC part of the Control Unit. x : Control Unit # (0-1)		① Perform the maintenance according to the message code “W01z0x CTL alarm” displayed at the same time.	“Chapter 6. Warning Messages” (MSG 06-0000)
HH9L0x	Unsupported ENC was detected [ENC type error] (CTL-x)	When the Control Unit was inserted in the Basic Chassis, an unsupported ENC part was detected in the Control Unit. x : Control Unit # (0-1)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9M0x	SAS Firmware error was detected (CTL-X)	A hardware failure of SAS CTL was detected in the same route during the backend route diagnosis operation. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9N0x	ENC recovery failed [Cable error] (CTL-x)	When replacing the Control Unit or firmware online, the Control Unit recovery failed because it was detected that the ENC cables were connected incorrectly or Linkdown occurred in the ENC Unit of any Additional Chassis by other routes for the Control Unit displayed in the message. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALM LED on the front of the Basic Chassis lights up (the system of the device is shut down)	
				1. Disregard to the message text “W01z0x CTL alarm (CTL-x)” displayed at the same time.	–
				2. One or more ENC cables may be connected incorrectly to the backend path which the Control Unit displayed in the message configures. Review the ENC cable connection to the backend path which the Control Unit displayed in the message configures.	–
				3. When some ENC cables are connected incorrectly, connect them correctly again.	–
				4. Refer to other displayed Information Messages and replace the failed parts.	Replacement “Chapter 2. Parts Replacement” (REP 02-0000)
				5. When the ENC cable connection is correct in Step ①-2. and the ENC Unit which has a paired number with the Control Unit number displayed in this message (ENC Unit #1 for Control Unit #0 or ENC Unit #0 for Control Unit #1) is not replaced by the maintenance in Step ①-4., collect the simple trace to specify the failed parts and contact the Technical Support Center.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
				6. Turn off the main switch, and turn it on after 20 seconds or more have elapsed.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. If the Control Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② When the ALM LED on the front of the Basic Chassis does not light up (the device is operating)	
				1. Disregard to the message text "W01z0x CTL alarm (CTL-x)" displayed at the same time.	–
				2. Remove the Control Unit displayed in the message once.	Installation "2.4.2 (4) Removing the Control Unit" (INST 02-0370)
				3. One or more ENC cables may be connected incorrectly to the backend path which the Control Unit displayed in the message configures. Review the ENC cable connection to the backend path which the Control Unit displayed in the message configures.	–
				4. When some ENC cables are connected incorrectly, connect them correctly again.	–
				5. Insert the Control Unit in the chassis.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board" (INST 02-0550)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Even if this message is still displayed and the Control Unit does not recover, remove the Control Unit displayed in the message once. When all ENC cables are connected correctly, refer to other displayed Information Messages and replace the failed parts (when replacing the ENC Unit which has a paired number with the Control Unit # displayed in this message (ENC Unit #1 for Control Unit #0 or ENC Unit #0 for Control Unit #1), the array should complete planned shutdown before the replacement. For the planned shutdown, arrange the time and date with the customer/SE).	Replacement "Chapter 2. Parts Replacement" (REP 02-0000) Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				7. When the ENC Unit which has a paired number with the Control Unit number displayed in this message (ENC Unit #1 for Control Unit #0 or ENC Unit #0 for Control Unit #1) is not replaced by the maintenance in Step ②-6., collect the simple trace to specify the failed parts and contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				8. Insert the Control Unit in the chassis.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board" (INST 02-0550)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9P00	System Startup Attribute is set to Single Mode although DP function is enabled	When starting the subsystem, although Dynamic Provisioning function was enabled, the firmware did not start the subsystem and let it go down because “System Startup Attribute” of “System Parameter” was set to “Single Mode”.	Simple Trace	① 1. Change the subsystem to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				2. Change [System Startup Attribute] of System Parameter to [Dual Active Mode] from WEB.	WEB “3.2.1 Subsystem” (WEB 03-0070)
				3. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB “3.7 Return Method to the Normal Mode” (WEB 03-0540)
HH9Q00	The system drives are composed of different types drives	The SAS Disk Drives, the SAS7.2K Disk Drives, the Flash Drives or the SATA Disk Drives are mixed in the system drives.	Simple Trace	① 1. If this message is displayed at the time of starting the subsystem and the subsystem goes down, turn off the main switch.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Reconfigure the system drives only with the SAS Disk Drives, the SAS7.2K Disk Drives, the Flash Drives or the SATA Disk Drives.	–
				3. Turn on the subsystem power again.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				② 1. If this message is displayed at the time of replacing the Disk Drives or adding the Disk Drives, check the type (SAS Disk Drive, the SAS7.2K Disk Drives, Flash Drive or SATA Disk Drive) of the already installed system drives.	–
				2. Replace the Disk Drives of the same type (SAS Disk Drive, the SAS7.2K Disk Drives, Flash Drive or SATA Disk Drive) as the already installed system drives.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9R00	Two or more HDUs have serial number problem	It was detected that the serial number acquired at the time of starting the subsystem and the serial number of the configuration information do not match in two or more Disk Drives.	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.27 Recovery Method when the Disk Drive Serial Number Acquired at the time of Starting the Subsystem and the Serial Number of the Configuration Information do not Match".	Troubleshooting "6.1.27 Recovery Method when the Disk Drive Serial Number Acquired at the time of Starting the Subsystem and the Serial Number of the Configuration Information do not Match" (TRBL 06-1140)
HH9S00	Upgrade failed [background LU format has not been completed]	Since the background LU formatting is not completed, the upgrade of the subsystem model cannot be executed.	Simple Trace	① 1. Return the subsystem to the configuration before the upgrade according to the "Upgrade Procedure Manual".	"Upgrade Procedure Manual"
				2. Restart the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				3. Wait until the LU formatting running in the background is completed.	–
				4. When the LU formatting running in the background is all completed, execute the upgrade of the subsystem model from the beginning again.	"Upgrade Procedure Manual"
HH9T00	The cache memory capacity has been reduced before background LU format is completed	Since the background LU formatting is not completed, the removal of the Cache Unit cannot be executed.	Simple Trace	① 1. Turn off the main switch of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Return the Cache Unit to the installation before the removal.	Addition/Removal/ Relocation "2.4.4 Removing a Cache Unit" (ADD 02-0310)
				3. Restart the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				4. Wait until the LU formatting running in the background is completed.	–
				5. When the LU formatting running in the background is all completed, execute the Cache Unit removal from the beginning again.	Addition/Removal/ Relocation "2.4.4 Removing a Cache Unit" (ADD 02-0310)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9U00	Backend down [Cable error] (Unit-x)	When the subsystem started, an improper connection of the ENC cable of the Additional Chassis was detected. x : Unit ID # (0-59)		① 1. Turn off the input power switch of the subsystem.	–
				2. Check the wiring of all ENC cables connected to the chassis with the chassis number displayed in the message and the subsequent numbers. If the ENC cables are connected incorrectly, wire the ENC cables correctly again.	–
				3. Turn on the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HH9V00	Model upgrade failed [Subsystem can not take over the user data.]	The model upgrade was performed between the unsupported models. Example: Model upgrade from AMS2300 to AMS2100 (model downgrade).	Simple Trace	① 1. Check "3. Upgrade Operation – Prerequisites" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual". Example: • Did you try to upgrade the subsystem which is not supporting the model upgrade? • Is the subsystem after the hardware upgrade operation a model that cannot be upgraded from the subsystem before the hardware upgrade operation?	"3. Upgrade Operation – Prerequisites" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual
				2. Change it to the maintenance mode.	"Subsection 6.4" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual
				3. If the update installation of the firmware was performed more than once in the subsystem of the existing hardware configuration, perform the following operation. 1. Cancel the firmware installation guard check. 2. Cancel the downgrade check.	
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. Perform the update installation of the firmware of the subsystem before the model upgrade operation. 4. Turn off the main switch on the front of the Basic Chassis. 5. Perform the procedure of the hardware upgrade operation (hardware) backward. 6. Return the cables and others to the subsystem configuration before the model upgrade. 7. Turn on the power of the subsystem. 8. Check the procedure again. 9. Check that the ALARM LED or WANING LED on the front of the Basic Chassis goes out and no failure has occurred. 10. If "HH13B0 System change failed [PIN]" has occurred, perform the maintenance according to the recovery method in the message. 11. When moving to the hardware upgrade operation, be sure to execute the planned shutdown. 12. Perform the upgrade operation from the beginning again.	"Subsection 6.4" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9W00	Default setup error was detected in subsystem boot-up	The subsystem failed to start up because its power was turned off and on while the subsystem was not started yet.	Simple Trace	① 1. When the subsystem is not started after the initial setup, change the subsystem to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				2. Perform the initial setup from the beginning again.	WEB “3.3.1 Microprogram” (WEB 03-0270)
				② 1. In the case other than ①, change it to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				2. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB “3.6 Other” (WEB 03-0530)
				3. Set [Configuration Clear Mode] of the [Others] window to “Configuration Clear”.	
				4. Click [Go to Normal Mode] of the menu frame to start the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HH9Y0x	ENC recovery failed [linkup error in the other route] (CTL-x)	By the SAS address check performed at the time of Control Unit replacement (checking whether the information on the backend path between the operating Control Unit and the Control Unit to be replaced is matched or not), the ENC Unit in LinkDown was detected by a failure of the ENC Unit which has the number paired with the Control Unit to be replaced (ENC Unit #1 in case of Control Unit #0 and ENC Unit #0 in case of Control Unit #1), the Control Unit recovery failed. x : Control Unit # (0-1)	CTL Alarm Trace	Disregard to the message text “W01z0x CTL alarm (CTL-x)” displayed at the same time.	
				① 1. When the ALM LED on the front of the Basic Chassis lights up (the system of the device is shut down), refer to the other output Information Message, and replace the failed part.	Replacement “Chapter 2. Parts Replacement” (REP 02-0000)
				2. Turn off the main switch, and turn it on after 20 seconds or more have elapsed.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				3. 1. By the maintenance in ①-1, if the ENC Unit which has the number paired with the Control Unit number displayed in this message (ENC Unit #1 in case of Control Unit #0 and ENC Unit #0 in case of Control Unit #1) is not replaced, collect the simple trace to identify the failed part, and contact the Technical Support Center.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
				2. If the Control Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② 1. When the ALM LED on the front of the Basic Chassis does not light up (the device is operating), refer to the other output Information Message, and perform the maintenance (for replacing the ENC Unit which has the number paired with the Control Unit number displayed in this message (ENC Unit #1 in case of Control Unit #0 and ENC Unit #0 in case of Control Unit #1), it is necessary to perform the planned shutdown of the device in advance. Discuss the date and time with the customer/SE for performing the planned shutdown of the device).	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. 1. By the maintenance in ②-1, if the ENC Unit which has the number paired with the Control Unit number displayed in this message (ENC Unit #1 in case of Control Unit #0 and ENC Unit #0 in case of Control Unit #1) is not replaced, collect the simple trace to identify the failed part, and contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				2. By the maintenance in ②-1, when the planned shutdown of the device is performed, if the Control Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HHA0xy	H-IPC hardware error was detected (CTL-x, I/F-y)	The number of times to which H-IPC (Host iSCSI Protocol controller) LSI operated beyond the assumption exceeded the threshold value. x : Control Unit # (0-1) y : Interface Board # (0-1)	Simple Trace	① Replace the Inter face Board displayed in the message. ② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HHA1xy	iSCSI firmware load failed (CTL-x, I/F-y)	The iSCSI firmware load failed. x : Control Unit # (0-1) y : Interface Board # (0-1)	Simple Trace		
HHA2xy	H-IPC is not detected (CTL-x, I/F-y)	The iSCSI Interface Board is installed, but H-IPC (Host iSCSI Protocol controller) LSI was unable to be recognized on PCI. x : Control Unit # (0-1) y : Interface Board # (0-1)	CTL Alarm Trace		
HHA4xy	H-IPC ECC error was detected (CTL-x, I/F-y)	The number of times of the ECC error detected when H-IPC LSI accessed the internal RAM exceeded the threshold value. x : Control Unit # (0-1) y : Interface Board # (0-1)	CTL Alarm Trace		
HHB000	Flash parameter update of iSCSI protocol chip failed (CTL-x, I/F-y, Code-z)	Rewrite of the Flash information of iSCSI Protocol Chip failed. x : Control Unit # (0-1) y : Interface Board # (0-1) z : Rewrite failure code 0= Rewrite of CRB Init & Board Configuration failed 1= Rewrite of BootLoader failed 2= Rewrite of FW Image failed 3= Rewrite of Pegtune failed 4= Check of Flash Revision failed	Full Dump	① Replace the Inter face Board displayed in the message.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HI0100	PS OFF failed [DSTG HUNG]	Hang-up of destaging processing of the other system was detected when the plan was stopped.	CTL Alarm Trace	①Do not remove the Control Unit or Cache Backup Battery while performing the following procedures. Disregard to the message text "W01z0x CTL alarm (CTL-x)" displayed at the same time.	
HI0201	PS OFF failed [POFNONCLD]	When PS is turned off, the information taken over is not set in the COLD state.	CTL Alarm Trace		
HI0202	PS OFF failed [POFNOJOB]	When PS is turned off, the plan stopping job has not been executed.	CTL Alarm Trace		
HI0310	OTHPS OFF time-out	Time-out in waiting for communication of the other system occurred while the plan was being stopped.	CTL Alarm Trace	1. Remove the power cable from the Power Unit, and install the power cable after waiting for one minute.	–
				2. Turn on the main switch.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② If the WARNING LED or ALARM LED on the front of the basic chassis lights up when the subsystem is starting or after starting, perform the maintenance according to the displayed message.	–
				③ If the subsystem becomes Ready normally, turn off/on the main switch and reboot the subsystem.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)
HI0420	System down selected [PS OFF]	When the plan could not be stopped, system shutdown was selected by the user.	CTL Alarm Trace	① Perform the maintenance according to the message text "W0S000 PS OFF failed [NO HDU]" displayed at the same time. Disregard to the message text "W01z0x CTL alarm (CTL-x)" displayed at the same time.	–
HI050x	CACHE access error (CACHE-x) [POFF]	When the plan was stopped, system shutdown was caused by a cache access error. (unrecoverable) x : Cache Unit # (0-1)	CTL Alarm Trace	① Perform the maintenance according to the message text "W0T000 PS OFF failed [CACHE ERR]" displayed at the same time. Disregard to the message text "W01z0x CTL alarm (CTL-x)" displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HI0600	PS OFF failed [PIN]	The sequential shutdown could not be done because of the too much pinned data.	CTL Alarm Trace	① Do not remove the Control Unit or Cache Backup Battery while performing the following procedures. Disregard to the message text "W01z0x CTL alarm (CTL-x)" displayed at the same time.	
				1. Remove the power cable from the Power Unit, and install the power cable after waiting for one minute.	–
				2. Turn on the main switch.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② If the WARNING LED or ALARM LED on the front of the basic chassis lights up when the subsystem is starting or after starting, perform the maintenance according to the displayed message.	–
				③ If the subsystem becomes Ready normally, turn off/on the main switch and reboot the subsystem.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ01xx	Microprogram error [INM]	Logical discrepancy of the firmware was detected. (Initial setting) x : Optional code	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ02xx	Microprogram error [POF]	Logical discrepancy of the firmware was detected. (Stop of plan) x : Optional code	CTL Alarm Trace		
HJ03xx	Microprogram error [RST]	Logical discrepancy of the firmware was detected. (Reset) x : Optional code	CTL Alarm Trace		
HJ04xx	Microprogram error [SCK]	Logical discrepancy of the firmware was detected. (Kernel) x : Optional code	CTL Alarm Trace		
HJ050x	Microprogram error [CIT]	Logical discrepancy of the firmware was detected. (Interruption) x : Optional code	CTL Alarm Trace		
HJ06xx	Microprogram error [RSM]	Logical discrepancy of the firmware was detected. (Resource control) x : Optional code	CTL Alarm Trace		
HJ07xx	Microprogram error [FTD]	Logical discrepancy of the firmware was detected. (Tachyon driver control) x : Optional code	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HJ08xx	Microprogram error [FSM]	Logical discrepancy of the firmware was detected. (Sequence Manager) x : Optional code	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ09xx	Microprogram error [LSM]	Logical discrepancy of the firmware was detected. (Link service control) x : Optional code	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ0Axx	Microprogram error [HSC]	Logical discrepancy of the firmware was detected. x : Optional code	CTL Alarm Trace	①Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ0Bxx	Microprogram error [NCR]	Logical discrepancy of the firmware was detected. (NCR) x : Optional code	CTL Alarm Trace		
HJ0Dxx	Microprogram error [SCP]	Logical discrepancy of the firmware was detected. (SCP control) x : Optional code	CTL Alarm Trace		
HJ0Exx	Microprogram error [CMD]	Logical discrepancy of the firmware was detected. (Command) x : Optional code	CTL Alarm Trace		
HJ0Fxx	Microprogram error [PRS]	Logical discrepancy of the firmware was detected. (Reading first) x : Optional code	CTL Alarm Trace		
HJ10xx	Microprogram error [COW]	Logical discrepancy of the firmware was detected. (Writing together) x : Optional code	CTL Alarm Trace		
HJ11xx	Microprogram error [RCH]	Logical discrepancy of the firmware was detected. (Cache control) x : Optional code	CTL Alarm Trace		
HJ12xx	Microprogram error [RAD]	Logical discrepancy of the firmware was detected. (RAID control) x : Optional code	CTL Alarm Trace		
HJ13xx	Microprogram error [DSC]	Logical discrepancy of the firmware was detected. (I/O execution control) x : Optional code	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ14xx	Microprogram error [DMA]	Logical discrepancy of the firmware was detected. (Data transfer control) x : Optional code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ15xx	Microprogram error [ERR]	Logical discrepancy of the firmware was detected. (Assistance in failure processing) x : Optional code	CTL Alarm Trace		
HJ16xx	Microprogram error [RCF]	Logical discrepancy of the firmware was detected. (Configuration control) x : Optional code	CTL Alarm Trace		
HJ17xx	Microprogram error [DRC]	Logical discrepancy of the firmware was detected. (Recovery of Disk Drive) x : Optional code	CTL Alarm Trace		
HJ18xx	Microprogram error [OFW]	Logical discrepancy of the firmware was detected. (Off-line monitoring) x : Optional code	CTL Alarm Trace		
HJ19xx	Microprogram error [ONW]	Logical discrepancy of the firmware was detected. (On-line monitoring) x : Optional code	CTL Alarm Trace		
HJ1Axx	Microprogram error [DST]	Logical discrepancy of the firmware was detected. (Emergency destaging) x : Optional code	CTL Alarm Trace		
HJ1Bxx	Microprogram error [CPR]	Logical discrepancy of the firmware was detected. (Forced recovery of parity) x : Optional code	CTL Alarm Trace		
HJ1Cxx	Microprogram error [COM]	Logical discrepancy of the firmware was detected. (Common function) x : Optional code	CTL Alarm Trace		
HJ1Dxx	Microprogram error [SV1]	Logical discrepancy of the firmware was detected. (SVP I/F) x : Optional code	CTL Alarm Trace		
HJ1Exx	Microprogram error [LUC]	Logical discrepancy of the firmware was detected. (Common function) x : Optional code	CTL Alarm Trace		
HJ1Fxx	Microprogram error [PR0]	Logical discrepancy of the firmware was detected. (Communication between Control Units) x : Optional code	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ20xx	Microprogram error [BKW]	Logical discrepancy of the firmware was detected. (Back end control) x : Optional code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ22xx	Microprogram error [CCP]	Logical discrepancy of the firmware was detected. (Coupling copy job) x : Optional code	CTL Alarm Trace		
HJ23xx	Microprogram error [MDU]	Logical discrepancy of the firmware was detected. (during an execution of drive firmware renewal job) x : Optional code	CTL Alarm Trace		
HJ24xx	Microprogram error [SDW]	Logical discrepancy of the firmware was detected. (Takeover writing job) x : Optional code	CTL Alarm Trace		
HJ25xx	Microprogram error [RVD]	Logical discrepancy of the firmware was detected. (RVR data transfer job) x : Optional code	CTL Alarm Trace		
HJ26xx	Microprogram error [RVP]	Logical discrepancy of the firmware was detected. (RVR communication job) x : Optional code	CTL Alarm Trace		
HJ27xx	Microprogram error [RVM]	Logical discrepancy of the firmware was detected. (RVR management) x : Optional code	CTL Alarm Trace		
HJ28xx	Microprogram error [STG]	Logical discrepancy of the firmware was detected. (Staging job) x : Optional code	CTL Alarm Trace		
HJ29xx	Microprogram error [SPL]	Logical discrepancy of the firmware was detected. (mistake specializing control) x : Optional code	CTL Alarm Trace		
HJ2Axx	Microprogram error [SML]	Logical discrepancy of the firmware was detected. (in the SendMail control) x : Optional code	CTL Alarm Trace		
HJ2Bxx	Microprogram error [SNP]	A logical error occurred. (Copy-on-write SnapShot job) x : Optional code	CTL Alarm Trace		
HJ2Cxx	Microprogram error [POM]	A logical error occurred. (Pool management) x : Optional code	CTL Alarm Trace		
HJ2Dxx	Microprogram error [SNR]	A logical error occurred. (Copy-on-write SnapShot restoration control) x : Optional code	CTL Alarm Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ2Exx	Microprogram error [SAM]	A logical error occurred. (S-Vol area management control) x : Optional code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ2Fxx	Microprogram error [QFM]	An illegal logical error of the firmware was detected. (Quick Format control) x : Optional code	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ30xx	Microprogram error [SMR]	A logical error occurred. (SMART control) x : Optional code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ31xx	Microprogram error [DRF]	A logical error occurred. (Drive flash control) x : Optional code	CTL Alarm Trace		
HJ32xx	Microprogram error [OPR]	An illegal logical error of the firmware was detected. (Online forced parity recovery control) x : Optional code	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ33xx	Microprogram error [MPC]	Logical illegality of the firmware was detected. (Multi-protocol management control) x : Optional code	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ34xx	Microprogram error [JSD]	Logical illegality of the firmware was detected. (Job support driver) x : Optional code	CTL Alarm Trace		
HJ35xx	Microprogram error [NSM]	A logical incorrectness of the firmware was detected. (NAS Sequence Manager control) x : Detailed code	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ37xx	Microprogram error [DMI]	Logical illegality of the firmware was detected (DDCB management information R/W job) x : Optional code	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				② When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ3Axy	Unsupported CACHE detected (CTL-x, CACHE-y)	An unsupported Cache memory was detected. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Simple Trace	① Replace the Cache Unit displayed in this message to the Cache Unit supported by the Control Unit of the subsystem and the firmware revision.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Firmware "1.8 Adaptable Firmware Revision" (FIRM 01-0180)
HJ3Bxx	Microprogram error [MAP]	Logical illegality was detected in the firmware (intermediate LU mapping management). x : Optional code	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
HJ3Cxx	Microprogram error [LMG]	Logical illegality was detected in the firmware (Modular Volume Migration management). x : Optional code	CTL Alarm Trace	② In the case other than ①, replace the Control Unit which shows this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ40xx	Microprogram error [BCM]	Logical discrepancy of the firmware was detected. (Backend common control) x : Optional code	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ41xx	Microprogram error [BDM]	Logical discrepancy of the firmware was detected. (Backend drive management control) x : Optional code	CTL Alarm Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HJ42xx	Microprogram error [BER]	Logical discrepancy of the firmware was detected. (Backend failure process control) x : Optional code	CTL Alarm Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HJ43xx	Microprogram error [BKD]	Logical discrepancy of the firmware was detected. (Backend diagnosis control) x : Optional code	CTL Alarm Trace		
HJ44xx	Microprogram error [BPD]	Logical discrepancy of the firmware was detected. (Backend protocol driver control) x : Optional code	CTL Alarm Trace		
HJ45xx	Microprogram error [BSM]	Logical discrepancy of the firmware was detected. (Backend SAS management control) x : Optional code	CTL Alarm Trace		
HJ46xx	Microprogram error was detected [SRW] (CTL-y)	Logical discrepancy of the firmware was detected. (Read/Write job in the system area) x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace		
HJ47xx	Microprogram error was detected [SMG] (CTL-y)	Logical inconsistency of the firmware was detected (Auto Migration management control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	–	–
HJ49xx	Microprogram error was detected [RGX] (CTL-y)	An illegal logical error of the firmware was detected (RAID group extended control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ4Axx	Microprogram error was detected [HDP] (CTL-y)	An illegal logical error of the firmware was detected (HDP control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ4B00	There is not enough Cache memory to use DP function	The subsystem did not start because the Cache memory capacity to use the Dynamic Provisioning function was insufficient by upgrading the model.	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables of the Basic Chassis.	–
				3. Add the Cache memory capacity so that the Dynamic Provisioning function can be used.	Addition/Removal/ Relocation "1.4.4 Adding a Cache Unit" (ADD 01-0390)
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HJ4C00	Cache memory is removed although DP function is enabled	The Cache memory capacity was removed when the Dynamic Provisioning function was unlocked and enabled.	Simple Trace	① 1. When using the Dynamic Provisioning function, turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables of the Basic Chassis.	–
				3. Return the Cache memory capacity to the capacity before removing the Cache memory.	–
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② 1. When removing the Cache memory without using the Dynamic Provisioning function, turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables of the Basic Chassis.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. Return the Cache memory capacity temporarily to the capacity before removing the Cache memory.	–
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				5. Lock the Dynamic Provisioning function of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				6. Execute the planned shutdown of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				7. Remove the Cache memory.	Addition/Removal/ Relocation "2.4.4 Removing a Cache Unit" (ADD 02-0310)
HJ4Dxx	Microprogram error was detected [OCV] (CTL-y)	An illegal logical error of the firmware was detected (Online cache verify control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	①When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				②In the case other than ①, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ4Exx	Microprogram error was detected [GPC] (CTL-y)	An illegal logical error of the firmware was detected (General-purpose copy job). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	①When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HJ4Fxx	Microprogram error was detected [ZDD] (CTL-y)	An illegal logical error of the firmware was detected (Zero "0" data deletion job control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace		
HJ4Gxx	Microprogram error was detected [PRM] (CTL-y)	An illegal logical error of the firmware was detected (Pool optimization management). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace		
				②When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				③When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HJ4Jxx	Microprogram error was detected [GDS] (CTL-y)	An illegal logical error of the firmware was detected (General-purpose destage job). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HJ4Kxx	Microprogram error was detected [CYM] (CTL-y)	An illegal logical error of the firmware was detected (Copy system intermediate control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace		
HJ4Lxx	Microprogram error was detected [WRC] (CTL-y)	An illegal logical error of the firmware was detected (Write extension remote copy job). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	② When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
HJ4Mxx	Microprogram error was detected [DAC] (CTL-y)	An illegal logical error of the firmware was detected (DAC control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	③ When the ALARM LED (red) on the front side of the Basic Chassis lights up, replace the Control Unit whose ALM LED lights up.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HJ4Nxx	Microprogram error was detected [DIR] (CTL-y)	An illegal logical error of the firmware was detected (Directory configuration change control). x : Optional code y : Control Unit # (0-1)	CTL Alarm Trace	① 1. When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
				2. Execute reconfigure memory again.	–
				② 1. When the ALARM LED on the front of the Basic Chassis does not light up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. Execute reconfigure memory again.	–
				③ 1. When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. After the subsystem becomes Ready, execute reconfigure memory again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HK0300	D-DMA error (PT-04, DRIVE-CACHE)	D-DMA failure trace Port #04, Disk Drive → Cache (forcible blockade by debug option)	CTL Alarm Trace	① Collect the CTL Alarm Trace.	Troubleshooting "7.4 Collecting CTL Alarm Trace" (TRBL 07-0090)
HK0400	D-DMA error (PT-05, DRIVE-CACHE)	D-DMA failure trace Port #05, Disk Drive → Cache (forcible blockade by debug option)	CTL Alarm Trace		
HK0500	D-DMA error (PT-06, DRIVE-CACHE)	D-DMA failure trace Port #06, Disk Drive → Cache (forcible blockade by debug option)	CTL Alarm Trace		
HK0600	D-DMA error (PT-07, DRIVE-CACHE)	D-DMA failure trace Port #07, Disk Drive → Cache (forcible blockade by debug option)	CTL Alarm Trace		
HK0700	D-DMA error (PT-04, CACHE-DRIVE)	D-DMA failure trace Port #04, Cache → Disk Drive (forcible blockade by debug option)	CTL Alarm Trace		
HK0800	D-DMA error (PT-05, CACHE-DRIVE)	D-DMA failure trace Port #05, Cache → Disk Drive (forcible blockade by debug option)	CTL Alarm Trace		
HK0900	D-DMA error (PT-06, CACHE-DRIVE)	D-DMA failure trace Port #06, Cache → Disk Drive (forcible blockade by debug option)	CTL Alarm Trace		
HK0A00	D-DMA error (PT-07, CACHE-DRIVE)	D-DMA failure trace Port #07, Cache → Disk Drive (forcible blockade by debug option)	CTL Alarm Trace		
HL0000	Other CTL workQPanic	The processing became unable to be continued because a capacity of the task control queue became full.	CTL Alarm Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
HSA000	DFPC error detect [SYSTEM DOWN]	The PDEV time-out occurred frequently in the screening or self heat-run system	Full Dump	① Execute full dumps from all the Control Units and contact the department for coping with troubles.	Troubleshooting "7.5 Collecting Full Dump" (TRBL 07-0140)
HSA10x	SELF HEATRUN: The destage of cache data failed (CTL-x)	In the SATA Disk Drive test of the LT short version SELF HEATRUN system, write to the cache data (pseudo planned shutdown) to the Disk Drive to be executed before the test of the test pattern 121 failed. x : Control Unit # (0-1)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.31 Recovery Method when Write to the Cache Data (Pseudo Planned Shutdown) Failed in the LT Short Version SELF HEATRUN System".	Troubleshooting "6.1.31 Recovery Method when Write to the Cache Data (Pseudo Planned Shutdown) Failed in the LT Short Version SELF HEATRUN System" (TRBL 06-1380)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HZ0200	Sink error	When the Down mode was set for the RAM in order to perform a debug, a command was detected that was not executed at all during the specified period (three seconds in default).	CTL Alarm Trace	① Get a trace of the Control Unit detachment.	Troubleshooting "7.4 Collecting CTL Alarm Trace" (TRBL 07-0090)
HZ0C00	TWSI access error was detected [Read, xx-yy-aa] (CTL-w)	An error was detected when read of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code w : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
HZ0D00	TWSI access error was detected [Write, xx-yy-aa] (CTL-w)	An error was detected when write of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code w : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
HZ0H0x	Directory reinitialization failed (CTL-x)	Writing to the cache memory failed when the directory was reinitialized after the other one of the dual Control Unit was detached while the subsystem was being booted. x : Control Unit # (0-1)	Simple Trace	① Replace the Control Unit shown in this message. Besides, take appropriate actions against the detachment of the other one of the dual Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② If the trouble is not solved, replace all the cache memories in the Control Unit displayed in this message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HZ0Lxx	DSC detected IOLIST error	An illegal transition status of the I/O request list queue was detected by the I/O execution control.	Simple Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HZ0M00	DM-LU write failed	Write to the DM-LU failed, and the subsystem became the alarm status.	CTL Alarm Trace	① 1. Remove the power cables of the Basic Chassis.	–
				2. Connect the power cables to the Basic Chassis.	–
				3. Turn on the main switch, and start the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				4. Check if the messages to require the Disk Drive replacement such as “HDU alarm” and “HDU error” are displayed referring to the WEB Information Message.	–
				5. If the message to require the Disk Drive replacement is displayed, perform the maintenance according to the message. If the messages to require the Disk Drive replacement such as “HDU alarm” and “HDU error” are not displayed, go to the procedure ①-10..	–
				6. Execute the planned shutdown of the subsystem.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				7. When the planned shutdown of the subsystem is completed, the maintenance work is completed. When the planned shutdown of the subsystem fails and this message is displayed again, if the subsystem goes down, the maintenance work needs to be continued. Firstly, remove the power cables of the Basic Chassis.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				8. Connect the power cables to the Basic Chassis.	–
				9. Turn on the main switch, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				10. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				11. Check the LU # of the DM-LU. When two DM-LUs are created, check each LU #.	–
				12. Check if the DM-LU is a DP Volume. When two DM-LUs are created, check if the DM-LU is a DP Volume for each DM-LU.	–
				13. When the DM-LU is not a DP Volume, contact the Technical Support Center. In case the DM-LU is a DP Volume, if either DM-LU is a DP Volume when two DM-LUs are created, request the customer/SE to create the free capacity more than or equal to the minimum capacity of the DM-LU (10 G bytes) in the DP pool to which the DM-LU belongs.	–
				14. Check that the formatting of the DP pool created in the step ①-13. is completed (it takes a long time before completing the formatting).	–
				15. Execute the planned shutdown of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
HZ0N0x	Kernel processing error (CTL-x)	The Kernel of the Control Unit's OS stopped illegally. x : Control Unit # (0-1)	CTL Alarm Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message. ② In the case other than ①, replace the Control Unit displayed in the message. ③ If this failure still occurs again, replace all Cache memories of the Control Unit displayed in the message.	"Chapter 6. Warning Messages" (MSG 06-0000) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HZ0Pxx	Cache capacity reduced although Cache Partition Manager enable	The cache memory capacity was reduced though Cache Partition Manager was valid (causing detachment of the both Control Units). x : The original cache memory capacity per Control Unit (G bytes) (01-08)	Simple Trace	① 1. Return the cache memory capacity to the original one. 2. Reboot the disk array unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Installation "1.5.1 Subsystem Power On" (INST 01-0140)
HZ0S00	Not enough Cache memory to use Cache Partition Manager	The Cache capacity to use Cache Partition Manager was insufficient due to the upgrade of the model.	Simple Trace	① Add the Cache memory in the capacity to be able to upgrade the model.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
HZ0T00	Changing to Single Mode failed as Cache Partition Manager is enable Changing to Dual Active Mode failed as Cache Partition Manager is enable	The system start attribute was changed although the Cache partition management function was effective.	Simple Trace	① Restore the system start attribute.	System Parameter "4.2 (1) Setting Boot Options" (SYSPR 04-0050)

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Chapter 4. Progress Messages

In this Chapter, read “microprogram” of the message text as “firmware”.

• Detail of the message code variable value

	Contents	Detailed contents	
z	Chassis type	1 : SMS100, 2 : DF800S, 3 : DF800M, 4 : DF800H, 6 : DF800ES, 7 : DF800EM, 8 : DF800EH, 9 : DF800EXS, A : RKAK, B : RKAKX, C : DF800EXSA, D : DF800EXS8F, E : RKAKS, F : Classification is impossible	
a	Disk Drive type	1 : SAS 10,000 rpm 3.5-type, 2 : SAS 15,000 rpm, 3 : SATA 7,200 rpm, 4 : SATA 10,000 rpm, 5 : SSD, 7 : SAS7.2K 7,200 rpm, 8 : SED 15,000 rpm, A : SAS 10,000 rpm 2.5-type, Z : Classification is impossible	
b	Disk Drive model name code	SAS	2 : AKF400, 4 : AKH146, 5 : AKH300, 7 : AKH450, C : AKH600, f : AMF600, w : AMF300
		SAS 7.2K	B : AWE2K
		SAS Dense	9 : AKH450X, A : AKH600X
		SAS 7.2K Dense	a : AWE2KX
		SATA	J : AVE500, K : AVE750, Q : AVE1K, V : AVE2K, j : AVE3K
		SATA Dense	U : AVE1KX, W : AVE2KX, k : AVE3KX
		SSD	F : AKS200, G : AKS400
		SAS(SED)	b : ANH600
		SAS(SED) Dense	c : ANH600X
c	Disk Drive model name	Character string : 0 to 8 characters	
d	Cache type	1 : 1 G byte, 2 : 2 G bytes, 4 : 4 G bytes	
e	ENC Unit type	0 : RKAK ENC Unit, 1 : SMS110 ENC Unit, 2 : RKAKX ENC Unit, Undetermined : Power-saving ENC Unit	
f	Host Connector	0 : 4 G FC, 1 : 8 G FC, 2 : 10 G iSCSI	

Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I0010x	CTL recovered (CTL-x)	The Control Unit recovered by replacing the Control Unit in the status of the subsystem powering on. x : Control Unit # (0-1)		–	–
I00300	Battery recovered	The battery voltage became recovered.		–	–
I0030x	Battery recovered (Battery-x)	The battery voltage became recovered. x : Cache Backup Battery # (0-3)		–	–
I0040x	Battery backup circuit recovered (CTL-x)	The battery charging circuit recovered. x : Control Unit # (0-1)		① When “W01z0x CTL alarm” is displayed before this message, disregard “I0040x Battery backup circuit recovered”.	–
I00500	FAN recovered (Unit-x, FAN-y) FAN recovered (CTL-Unit, FAN-y)	The Fan Unit of the Basic Chassis or Additional Chassis recovered from the failure. x : Unit ID # (0-59) y : FAN Unit # (0-1)		–	–
I006z0	PS recovered (Unit-x, PS-y) PS recovered (CTL-Unit, PS-y)	The voltage of the power supply recovered. x : Unit ID # (0-59) y : Power Unit # (0-1) z : 0 = AC Power Unit, 1 = DC Power Unit		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I007ab	HDU recovered (Unit-x, HDU-y)	The Disk Drive was recovered. x : Unit ID # (0-59) y : Disk Drive # (0-23) a : Disk Drive type (Refer to (MSG 04-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 04-0000) for the detail)		–	–
I00800	Data recovery to spare HDU (Unit-x, HDU-y)	Data was recovered to the Spare Disk. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I009ab	Spare HDU recovered (Unit-x, HDU-y)	The Spare Disk was recovered. x : Unit ID # (0-59) y : Disk Drive # (0-23) a : Disk Drive type (Refer to (MSG 04-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 04-0000) for the detail)		–	–
I00Be0	ENC recovered (Unit-x, ENC-y)	The PK failure of SW recovered. x : Unit ID # (0-59) y : ENC Unit # (0-1) e : ENC Unit type (Fixed value : 0)		–	–
I00D0x	UPS recovered (UPS-x)	The UPS was recovered. x : UPS # (0-1)		–	–
I030xy	Path recovered by web operation (Remote-x, Path-y)	The path was recovered by an operation from the Web. x : Remote # (Array ID) y : Path # (0-7)		–	–
I031xy	Path recovered automatically (Remote-x, Path-y)	The path recovered automatically. x : Remote # (Array ID) y : Path # (0-7)		–	–
I04000	Unreadable PIN recovered	Data has been restored due to recovery of the drives from the unreadable PIN.		–	–
I041xy	Battery recovered (Additional Battery-y)	The battery voltage became normal. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Backup Box # (0-1)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I0430x	Backend route recovered (Path-x)	The backend path failure was removed and the backend path recovered. x : Path # (0-7)		–	–
I10000	Subsystem is ready	The unit is ready.		–	–
I11000	All raid group initialized	All RAID groups were deleted.		–	–
I111xx	RAID group deleted (RG-x)	All LUs were deleted. x : RAID group # (0-99)		–	–
I12000	ALL LU initialized	All LUs were deleted. (This is also displayed when the LU #0 is created.)		–	–
I12100	LU deleted (LU-x)	LUs were deleted. x : LU # (0-4095)		–	–
I12200	LU format completed (LU-x)	LU formatting was completed. x : LU # (0-4095)		–	–
I12300	LU format failed (LU-x)	LU formatting stopped abnormally. x : LU # (0-4095)	Simple Trace	① When one of the following messages is displayed at the same time, follow the recovery procedure given by the message. • W09zab HDU alarm • W0Azab SATA HDU alarm ② A Confirm that a Disk Drive to which the objective LU is allotted is mounted. ③ If it is confirmed in the step ② that all the Disk Drives are installed and no failure has occurred in them, format the object LU again.	–
I12400	LU format start (LU-x)	An LU formatting was started. x : LU # (0-4095)		–	–
I12500	Unified LUs separated (UNI:LU-x)	Dissolution of all LU unification (to dissolve unification of all the unified LUs and to split them into internal LUs) was executed. x : An internal LU # of a unified LU to be spitted. (0-4095)		–	–
I12600	Last LU separated from unified LU (UNI:LU-x)	A separation of a final LU of a unified LU (to separate the last one of the internal LUs which have been combined with a unified LU) was executed. x : An internal LU # of a unified LU to be spitted. (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I12700	LU reappeared (LU-x)	An internal LU(s) was validated again through splitting of an unified LU separation of a final LU. x : An LU # of an internal LU which has been separated and validated. (0-4095)		–	–
I13000	Spare HDU defined (Unit-x, HDU-y)	A Spare Disk is registered. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I13100	Spare HDU deleted (Unit-x, HDU-y)	Registration of a disk is called off. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I14000	System copy started (Unit-x, HDU-y)	System copy was started. x : Unit ID # (0-59) y : Disk Drive # (0-4)		① Do not change the configuration during the system copy. Because of copying the system information after the configuration change, if the operations for changing the system configuration (LU creation, format, LU owner right change) are overlapped, the message may be displayed multiple times. Also, when the firmware was replaced online after changing the system configuration, the message may be displayed two or more times, but it is not a problem.	–
I14100	System copy completed (Unit-x, HDU-y)	System copy terminated normally. x : Unit ID # (0-59) y : Disk Drive # (0-4)		–	–
I14200	System copy failed (Unit-x, HDU-y)	System copy failed. x : Unit ID # (0-59) y : Disk Drive # (0-4)	Simple Trace	① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive”.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030) Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive” (REP 01-0110)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I15000	Data recovery started (Unit-x, HDU-y)	Data recovery was started. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I15100	Data recovery completed (Unit-x, HDU-y)	Data recovery terminated normally. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I15200	Data recovery failed (Unit-x, HDU-y)	Data recovery failed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① When the following messages is displayed before this message, refer to Troubleshooting "6.1.8 Data Recovery does not Terminate Normally : Case 1 (Read Error)". • I30100 HDU error • I301AT SATA HDU error • W0L000 Unreadable PIN detected When the following messages is displayed before this message, refer to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)". • W0Bzab Spare HDU alarm • W0Czab SATA Spare HDU alarm	Troubleshooting "6.1.8 Data Recovery does not Terminate Normally : Case 1 (Read Error)" (TRBL 06-0640) Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)" (TRBL 06-0650).
I15300	Data recovery partial (Unit-x, HDU-y)	A part of the data could not be recovered, and the data restoration was completed by managing the data as it is not possible to read. (Incomplete writing is registered.) x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① See Troubleshooting "6.1.8 Data Recovery does not Terminate Normally : Case 1 (Read Error).	Troubleshooting "6.1.8 Data Recovery does not Terminate Normally : Case 1 (Read Error)" (TRBL 06-0640)
I15A00	Dynamic sparing start (Unit-x, HDU-y) [z]	Dynamic sparing started. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : Detailed code		–	–
I18000	PIN-over recovered	The PIN threshold value lowered.		–	–
I19000	Online micro-update completed	The hot replacement of the firmware was completed.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1A00x	Permanent LU disable (Default CTL-x)	LU residence is not changed. x : Default Control Unit # (0-2) (In case of 2, it is applied to both Control Units.)		① Set the unit in the ready state and turn off the power, then turn on the power again.	–
I1A10x	Permanent LU deleted (Default CTL-x)	LU residence is deleted. (When RAID group/LU is deleted) x : Default Control Unit # (0-2)		–	–
I1A2xy	Permanent LU warning recovered (CTL-x, ERR-y)	LU residence OFF warning was called off. x : Default Control Unit # (0-1) y : Factor code 0: Too large LU 1: Cache access error 2: Regression of Control Unit 3: Abnormal battery voltage 4: Abnormal battery charging circuit 5: Larger than PIN threshold value		–	–
I1A30x	Permanent LU enable (Default CTL-x)	The Turbo LU residence function was turned on. x : Default Control Unit # (0-1)		–	–
I1B000	Forced parity correction started	Forced parity correction processing was started.		–	–
I1B100	Forced parity correction completed	Forced parity correction processing was finished.		–	–
I1E000	Online verify completed [odd unit]	Check of the frames with odd numbers was completed in the online verification.		–	–
I1E100	Online verify completed [even unit]	Check of the frames with even numbers was completed in the online verification.		–	–
I1E200	LU access enable [QuickShadow pair canceled] (LU-x)	Read/Write to P-VOL enabled. x : LU # (0-4095)	Simple Trace	–	–
I1E300	LU access disable [QuickShadow restore failed] (LU-x)	Read/Write to P-VOL disabled. x : LU # (0-4095)	Simple Trace	① Cancel all the pairs of the V-VOL in the P-VOL.	–
I1F000	Data pool load failed	The loading of pool information failed.	Simple Trace	–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1G00x	PSUE occurred [QuickShadow] (Data pool-x)	All pairs in the data pool changed to PSUE status. x : Data pool # (0-63)	Simple Trace	① Release the pair which became PSUE, and create the pair again.	–
I1G100	PSUE occurred (LU-x)	All pairs to which P-VOL belongs changed to PSUE status. x: LU # (0-4095)	Simple Trace		
I1G200	PSUE occurred (ShadowImage)	A pair, whose status was changed to PSUE, exists.	Simple Trace	① Refer to Troubleshooting "Chapter 9. Data Collection when a Failure Occurs in Program Product (P.P.)".	Troubleshooting "Chapter 9. Data Collection when a Failure Occurs in Program Product (P.P.)" (TRBL 09-0000)
I1G300	CTL recovery start (CTL-x)	Because the recovery operation has been started, do not pull out the Control Unit. x : Control Unit # (0-1)		–	–
I1G400	Quick Format started (LU-x)	The Quick Format started a job that executes a formatting in the background. x : LU # (0-4095)		–	–
I1G500	Quick Format completed (LU-x)	A formatting of the whole area in the LU was completed. x : LU # (0-4095)		–	–
I1G600	Quick Format Suspended	Quick Format was suspended since power shutdown and battery lost occurred, and the map controlling the formatted area was lost.		① User data may be lost. Confirm the situation to user. And execute format again. Afterwards, restore the backup data.	System Parameter "3.3 Setting of LU" (SYSPR 03-0130)
I1G70x	FC I/F ports remain offline (CTL-x)	The Fibre Channel interface board was made offline according to the instruction issued by Hitachi Storage Navigator Modular 2 at the time of the firmware hot replacement. x : Control Unit # (0-1)		① When Hitachi Storage Navigator Modular 2 completes execution of the procedure for hot replacement of the firmware, the Fibre Channel interface port becomes online.	–
I1G80x	FC I/F ports change to online (CTL-x)	The Fibre Channel interface board was made online according to the instruction issued by Hitachi Storage Navigator Modular 2 at the time of the firmware hot replacement. x : Control Unit # (0-1)		–	–
I1G900	SATA HDU limit over [Self-monitoring] (Unit-x, HDU-y)	The count of drive errors exceeded its threshold value. x : Unit ID # (1-59) y : Disk Drive # (0-23)		① Replace the Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1GA00	Forced parity correction is stopped [user directions]	The forced parity correction was suspended because the Hitachi Storage Navigator Modular 2 instructed for the suspension during the forced parity correction process.		–	–
I1GB00	Forced parity correction is started (LU-x)	The forced parity correction was started. x : LU # (0-4095)		–	–
I1GC00	Forced parity correction is completed (LU-x)	The forced parity correction was completed. x : LU # (0-4095)		–	
I1GD00	Forced parity correction is stopped [HDU alarm]	The forced parity correction was stopped because of a drive detachment.		–	
I1GE00	Forced parity correction is stopped [Too Many Unreadable PINs] (LU-x)	The forced parity correction was stopped because a number of registered unwritten data per LU exceeded a certain value. x : LU # (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.3 [Recovery method-5] : Incomplete write occurred during the forced parity correction.".	Troubleshooting "6.1.3 [Recovery method-5] : Incomplete write occurred during the forced parity correction." (TRBL 06-0270)
I1GG00	HDU changed to spare (Unit-x, HDU-y)	The configuration information was changed as follows. The data drive, which had been restored in the Active Spare mode, was changed to a Spare Drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	–	–
I1GH00	Forced parity correction stopped by too many PINs (RG-x, LU-y)	The forced parity correction of the target LU was suspended because the PIN over for each RAID group became near. x : RAID group # (0-99) y : LU # (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.3 [Recovery method-4] : PIN over occurred during the forced parity correction.".	Troubleshooting "6.1.3 [Recovery method-4] : PIN over occurred during the forced parity correction." (TRBL 06-0250)
I1GJ00	Forced parity correction stopped by too many PINs (PTT-x, LU-y)	The forced parity correction of the target LU stopped because PIN-over for each partition became close. x : Partition # (0-31) y : LU # (0-4095)	Simple Trace		
I1GK00	Forced parity correction stopped by too many PINs (DIR-x, LU-y)	The forced parity correction of the target LU stopped because PIN-over for each DIR became close. x : Directory # (0 or 1) y : LU # (0-4095)	Simple Trace		
I1GM00	The mode parameter change start	The rewrite of the mode parameter of the Disk Drive started.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1GN00	The mode parameter change complete	The rewrite of the mode parameter of the Disk Drive was completed.		–	–
I1GT00	All DM-LU canceled	Only one DM-LU was defined and the system released DM-LU in WARNING with write of all DM-LU disabled.		–	–
I1GU00	Modification of Cache Partition skipped (PIN or Unreadable PIN)	The setting of cache partitions could not be changed because pinned data existed.	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
				② When either of the following messages is displayed before this message, take recovery actions according to the message. • W0L000 Unreadable PIN detected • W0M000 Unreadable PIN detected"	–
				③ Check whether pinned data exist or not. When the pinned data exist, refer to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "10.2.3 Displaying Logical Unit Failure Data Information" (TRBL 10-0100) Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN over)" (TRBL 06-0690)
				④ Boot the subsystem after executing the deliberate shutdown in order to change the setting of cache partitions.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)
I1GV00	Modular Volume Migration completed (LU-x/y)	One Modular Volume Migration is completed. x : Internal LU # of the P-VOL (0-4095) y : Internal LU # of the S-VOL (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1GW00	Modular Volume Migration stopped (LU-x/y)	Modular Volume Migration was cancelled because the instruction of cancellation was received or the pair was changed to PSUE. x : Internal LU # of the P-VOL (0-4095) y : Internal LU # of the S-VOL (0-4095)		–	–
I1GX00	Modular Volume Migration started (LU-x/y)	One Modular Volume Migration started. x : Internal LU # of the P-VOL (0-4095) y : Internal LU # of the S-VOL (0-4095)		–	–
I1GY00	The request of spin up of disk drives is accepted (RG-x)	The spin-up was instructed by Hitachi Storage Navigator Modular 2 to the Disk Drive which was made to spin down for the power saving. x : RAID group # (0-99)		–	–
I1GZ00	The spin up of disk drives completed (RG-x)	The Disk Drive which was made to spin-down for the power saving spun-up. x : RAID group # (0-99)		–	–
I1H000	The request of spin down of disk drives is accepted (RG-x)	The spin-down was instructed to the Disk Drive for the power saving from Hitachi Storage Navigator Modular 2. x : RAID group # (0-99)		–	–
I1H100	The spin down of disk drives completed (RG-x)	The spin down of the Disk Drives which was executed by Hitachi Storage Navigator Modular 2 in accordance with the command of the set power saving was completed. x : RAID group # (0-99)		–	–
I1H200	The recovery for the disk drives of power saving started (RG-x)	Because a failure occurred in the Disk Drives to which the spin-down of the power saving was set, all the Disk Drives in the RAID Group displayed in the message were spin up, and the post-processing of the failure started. x : RAID group # (0-99)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I1H300	The recovery for the disk drives of power saving completed (RG-x)	The post-processing of the failure of the Disk Drives to which the spin-down of the power saving was set was completed. And, the Disk Drives of the RAID Group displayed in the message were spin-down again according to the setting of the power saving. x : RAID group # (0-99)		–	–
I1H400	Automatic health check of disk drives started (RG-x)	The health check (it confirms that the adhesion of the head and the disk is prevented and the spindle motor rotates) started in the Disk Drive which was made to spin-down for the power saving started. x : RAID group # (0-99)		–	–
I1H500	Automatic health check of disk drives completed (RG-x)	The health check (it confirms that the adhesion of the head and the disk is prevented and the spindle motor rotates) of the Disk Drive which was made to spin-down for the power saving was completed. x : RAID group # (0-99)		–	–
I1H600	PSUE occurred [SnapShot]	All SnapShot pairs were changed to PSUE, and the V-VOL data of the pairs changed to PSUE was discarded.	Simple Trace	① To recover the SnapShot pair from PSUE, request the customer to execute the pair creation (paircreate) after executing the pair release (pairsplit-S) for the pair.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I30100	HDU error (Unit-x, HDU-y)	PDEV should be blocked because of an error, but it is not blocked since redundancy is insufficient. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Refer to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)" (TRBL 06-0650)
I301AT	SATA HDU error (Unit-x, HDU-y)	PDEV should be blocked because of an error, but it is not blocked since redundancy is insufficient. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		
I30200	System HDU error	There is a drive which cannot handle the system before the system is ready.	Simple Trace	① Solve the failure according to "I14200 System copy failed" indicated before the message.	–
I30300	HDU read capacity failed (Unit-x, HDU-y)	The insertion of the Disk Drive failed because the capacity of the replaced Disk Drive was small. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace it with the Disk Drive of the same capacity or more as the Disk Drive before the replacement.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I30400	HDU spin up failed (Unit-x, HDU-y)	An insertion of a Disk Drive failed because of a Disk Drive failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Pull out the Disk Drive and insert it again.(*1) ② If the trouble is not solved in spite of the above operation, replace the Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I30500	HDU read capacity failed (Unit-x, HDU-y)	An insertion of a Disk Drive failed because of an illegal read capacity. x : Unit ID # (0-59) y : Disk Drive # (0-23)			

*1 : If this message is issued frequently, it is suspected that one of the following cases have occurred.

- Symptom : Spin-up operation repeats interruption and restart because of contention with the RAID Manager command in the case where the ShadowImage in-system replication function is used.
  Corrective action : Contact the system manager. If RAID Manager command is issued by polling in a short period, check the manual and change the value to be appropriate.
- Symptom : A spin up operation repeats an interruption and restart because LU switchings occur frequently.
  Corrective action : Check the setting of the owner right to the LU and change it so that the LU switching does not occur owing to an I/O command issued by a host.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I30A00	HDU number which is installed in RKAKX exceeds the restriction (Unit-x, HDU-y)	The Disk Drives whose power consumption exceeded the product specification are installed in the RKAKX. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	In case of replacing the Disk Drives installed in the RKAKX with different type of drives, perform "Chapter 4. Drive Replacement for Changing the Drive Type" after the following recovery procedure.	Addition/Removal/Relocation "Chapter 4. Drive Replacement for Changing the Drive Type" (ADD 04-0000)
				①1. Remove the Disk Drives displayed in the message.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I30B00	The SAS HDU is installed in the restricted HDU slot of in RKAKX (Unit-x, HDU-y)	It is detected that the SAS Disk Drives are inserted in the slot #19 through #23 of the RKAKX. x : Unit ID # (0-59) y : Disk Drive # (0-23)		2. When installing the SAS Disk Drives in the RKAKX displayed in the message, install only the SAS Disk Drives in slots #A0 to #A18 and slots #B0 to #B18 of the RKAKX again. Do not install SATA Disk Drives or the SAS7.2K Disk Drives in this chassis. Contact the customer/SE for the arrangement to install the SAS Disk Drives. When removing the Disk Drives already used, perform the operation according to the removal procedure.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Addition/Removal/Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
I30C00	SAS HDU and SATA HDU cannot be installed in the same RKAKX (Unit-x, HDU-y)	• It was detected that the SATA Disk Drives were inserted in the slots #0 to #18 of the SAS chassis of the RKAKX. • It was detected that the SAS Disk Drives or the SAS7.2K Disk Drives were inserted in the slots #0 to #18 of the SATA chassis of the RKAKX. x : Unit ID # (0-59) y : Disk Drive # (0-23)		3. When installing the SATA Disk Drives in the RKAKX displayed in the message, install only the SATA Disk Drives in the RKAKX. Contact the customer/SE for the arrangement to install the SATA Disk Drives. When removing the Disk Drives already used, perform the operation according to the removal procedure.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Addition/Removal/Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				4. When installing the NL SAS Disk Drives in the RKAKX displayed in the message, install only the SAS7.2K Disk Drives in the RKAKX. Contact the customer/SE for the arrangement to install the SAS7.2K Disk Drives. When removing the Disk Drives already used, perform the operation according to the removal procedure.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Addition/Removal/ Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
I30D00	The several different types of disk drives are installed in the RKAKX (Unit-x, HDU-y)	It was detected that different types of Disk Drives were mixed and installed in the chassis. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	In case of replacing the Disk Drives installed in the RKAKX with different type of drives, perform "Chapter 4. Drive Replacement for Changing the Drive Type" after the following recovery procedure.	Addition/Removal/Relocation "Chapter 4. Drive Replacement for Changing the Drive Type" (ADD 04-0000)
				① If this message is displayed after installing a Disk Drive newly or adding the RKAKX chassis and the Disk Drive is blocked, check if the Disk Drive is the Disk Drive model which should be installed. If an incorrect Disk Drive is installed, replace it to the Disk Drive model which should be originally installed.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				② 1. Remove the Disk Drives displayed in the message.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				2. Check the regulations on Disk Drive installation of the RKAKX chassis.	Introduction "1.3 (1) (c) RKAKX Disk Drive installation specification" (INTR 01-0095)
				3. Check with the customer/SE about the Disk Drive configuration of the RKAKX chassis.	–
				4. Replace the Disk Drive of the RKAKX chassis again.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I30E00	HDU calibration was detected (Unit-x, HDU-y)	The update processing of the correction table operated in the Disk Drive for executing the RRO calibration. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I41000	HDU error over (Unit-x, HDU-y) [HDRVC]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered mechanism system. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
I41100	HDU error over (Unit-x, HDU-y) [HDUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered mechanism system. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41200	HDU error over (Unit-x, HDU-y) [MDRCV]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered medium system. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41300	HDU error over (Unit-x, HDU-y) [MDUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered medium system. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41400	HDU error over (Unit-x, HDU-y) [RWRCV]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered R/W system. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41500	HDU error over (Unit-x, HDU-y) [RWUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered R/W system. x : Unit ID # (0-59) y : Disk Drive # (0-23)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I41600	HDU error over (Unit-x, HDU-y) [IFRCV]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered disk I/F. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
I41700	HDU error over (Unit-x, HDU-y) [IFUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered disk I/F. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41800	HDU error over (Unit-x, HDU-y) [CHRCV]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered hardware. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41900	HDU error over (Unit-x, HDU-y) [CHUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered hardware. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41A00	HDU error over (Unit-x, HDU-y) [SCRCV]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the recovered SCSI I/F. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41B00	HDU error over (Unit-x, HDU-y) [SCUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an error in the un-recovered SCSI I/F. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41C00	HDU error over (Unit-x, HDU-y) [ONVRCV]	The disk at the position indicated with x and y exceeds the threshold value because of a correctable error in the on-line verification. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I41D00	HDU error over (Unit-x, HDU-y) [ONVUNR]	The disk at the position indicated with x and y exceeds the threshold value because of an uncorrectable error in the on-line verification. x : Unit ID # (0-59) y : Disk Drive # (0-23)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I41E00	HDU error over (Unit-x, HDU-y) [ONVHER]	In the disk located at a position shown as xy, the error count exceeded its threshold value owing to hardware errors (errors other than recovered error and media error) occurred in an online verification. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
I41F00	HDU error over (Unit-x, HDU-y) [REAOV]	An excess over the threshold value of the reassignment execution count occurred. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I4200x	Online micro-update (CTL-x)	The firmware of the Control Unit was replaced in the state in which the subsystem power was on. x : Control Unit # (0-1)		–	–
I43000	HDU byte check error (Unit-x, HDU-y)	A failure was detected by the disk drive diagnosis. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I44000	SED authentication failed (Unit-x, HDU-x)	• Since the authenticated SAS (SED) Disk Drive was inserted in the other subsystem, the SAS (SED) Disk Drive authentication failed. • The authentication of the SAS (SED) Disk Drives failed because the model was upgraded without restoring the master key or the master key was not restored from the maintenance mode after replacing both Control Units while the subsystem power was turned off (there is no LU definition for the SAS (SED) Disk Drive). x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	When this message is displayed not for all the installed SAS (SED) Disk Drives but for a part of the SAS (SED) Disk Drives	
				① Replace the relevant SAS (SED) Disk Drives displayed in this message to new SAS (SED) Disk Drives.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
				When this message is displayed for all the installed SAS (SED) Disk Drives	
				① 1. Request the customer/SE to provide the backup file and its password of the master key.	–
				2. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				3. Restore the master key.	System Parameter “12.2 Restoring the Master Authentication Key” (SYSPR 12-0020)
				4. Perform the dummy replacement (*1) for all the SAS (SED) Disk Drives displayed in the message text “HDU error” which is displayed at the same time as this message.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
				5. Perform the dummy replacement (*1) for all the SAS (SED) Disk Drives displayed in the message text “HDU alarm”.	
				6. Check that this message is not displayed.	–
				7. Request the customer/SE to update the master key.	–

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I44100	The counter of intermittent HDU error was over the threshold (Unit-x, HDU-y) [DIAG]	The drive internal diagnosis error counter exceeded the threshold value. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive”.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030) Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive” (REP 01-0110)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I52400	HDU response timeout (Unit-x, HDU-y)	A Disk Drive failure was detected by frame sending diagnosis. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive".	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
I53500	PSUE occurred [QuickShadow]	When Copy-on-write SnapShot was executed, it was moved to PSUE.	Simple Trace	① Refer to Troubleshooting "Chapter 9. Data Collection when a Failure Occurs in Program Product (P.P.)" to collect necessary information.	Troubleshooting "Chapter 9. Data Collection when a Failure Occurs in Program Product (P.P.)" (TRBL 09-0000)
I53A0f	Host connector recovered (Portxy)	The Host Connector was recovered from a failure. x : Control Unit # (0-1) y : Port # (A-H) f : Host connector (Refer to (MSG 04-0000) for the detail)		–	–
I54E00	Battery error inf. [More battery unit is required] (Battery-x)	The number of Cache Backup Battery is less than the minimum number of installed units. x : Cache Backup Battery # (0-1)		① Install the minimum number of Cache Backup Battery to be installed.	Replacement "2.2.2 Replacing Cache Backup Battery" (REP 02-0280)
I54F00	PS error inf. [PS status error] (Unit-x, PS-y) PS error inf. [PS status error] (CTL-Unit, PS-y)	An error of the Power Unit of the Basic Chassis or Additional Chassis was detected. x : Unit ID # (0-59) y : Power Unit # (0-1)		① Perform the maintenance according to the message text "PS alarm" displayed at the same time.	–
I54G00	PS error inf. [Remove] (Unit-x, PS-y) PS error inf. [Remove] (CTL-Unit, PS-y)	The removal of the Power Unit of the Basic Chassis or Additional Chassis was detected. x : Unit ID # (0-59) y : Power Unit # (0-1)			
I54H0x	FAN error inf. [Remove] (CTL-Unit, FAN-x)	The FAN Unit was removed. x : FAN Unit # (0-1)		–	–
I54J00	ENC error inf. [Remove] (Unit-x, ENC-y)	The ENC Unit of the Additional Chassis was removed. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Insert the ENC Unit of the Additional Chassis in the slot of the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I54K00	FAN alarm [PS OFF] (Unit-x) FAN alarm [PS OFF] (CTL-Unit)	The planned shutdown was executed automatically due to a fan error of the Basic Chassis or Additional Chassis. x : Unit ID # (0-59)		① Perform the maintenance according to the message text “PS alarm” or “FAN alarm” displayed at the same time.	–
I54L0x	Battery error inf. [Remove] (Battery-x)	The Cache Backup Battery was removed. x : Cache Backup Battery # (0-3)		① 1. Check if the Cache Backup Battery displayed in the message is surely inserted all the way in the slot.	–
				2. When the Cache Backup Battery is surely inserted all the way in the slot, replace the Cache Backup Battery. When it was removed consciously for removal, the executed removal procedure was incorrect. Therefore, insert the Cache Backup Battery once and check the message of “I0030x Battery recovered”, and then remove the Cache Backup Battery in the correct procedure.	Replacement “2.2.2 Replacing Cache Backup Battery” (REP 02-0280)
I54Mxy	Battery error inf. [Cable error] (Additional Battery-y)	The Additional Battery Box was removed. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		① Perform the maintenance according to Troubleshooting “6.1.23 Recovery Method when an Error of the Additional Battery Box Connection was Detected”.	Troubleshooting “6.1.23 Recovery Method when an Error of the Additional Battery Box Connection was Detected” (TRBL 06-1010)
I54N0x	Battery error inf. [Charge circuit error] (Battery-x)	An error of the charging circuit of the Cache Backup Battery was detected. x : Cache Backup Battery # (0-3)		① Replace the Cache Backup Battery displayed in the message.	Replacement “2.2.2 Replacing Cache Backup Battery” (REP 02-0280)
I54Pxy	Battery error inf. [Charge circuit error] (Additional Battery-y)	An error of the charging circuit of the Additional Battery Box was detected. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		① Replace the Additional Battery Box displayed in the message.	Replacement “2.2.14 Replacing Additional Battery Box” (REP 02-1280)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I54Q0x	Battery error inf. [I/F error] (Battery-x)	An I/F failure of the Cache Backup Battery was detected. x : Cache Backup Battery # (0-3)		① Replace the Cache Backup Battery displayed in the message.	Replacement "2.2.2 Replacing Cache Backup Battery" (REP 02-0280)
I54Rxy	Battery error inf. [I/F error] (Additional Battery-y)	An I/F failure of the Additional Battery Box was detected. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		① 1. Check if the power cable connected to the Additional Battery Box displayed in the message is surely inserted all the way in the connector.	–
				2. When "I041xy Battery recovered" is not displayed in the Information message, replace the Additional Battery Box displayed in the message and the power cable.	Replacement "2.2.14 Replacing Additional Battery Box" (REP 02-1280) Addition/Removal/Relocation "1.4.8 Adding an Additional Battery Box (e)" (ADD 01-0611)
I54S0x	Battery error inf. [Voltage error] (Battery-x)	An error of the Cache Backup Battery voltage was detected. x : Cache Backup Battery # (0-3)		① Replace the Cache Backup Battery displayed in the message.	Replacement "2.2.2 Replacing Cache Backup Battery" (REP 02-0280)
I54Txy	Battery error inf. [Voltage error] (Additional Battery-y)	An error of the Additional Battery Box voltage was detected. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		① Replace the Additional Battery Box displayed in the message.	Replacement "2.2.14 Replacing Additional Battery Box" (REP 02-1280)
I54U0x	The battery was added (Battery-x)	A Cache Backup Battery was added. x : Cache Backup Battery # (0-3)		–	–
I54Vxy	The battery added (Additional battery-y)	An Additional Battery Box was added. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		–	–
I54W0x	The battery removed (Battery-x)	A Cache Backup Battery was subtracted. x : Cache Backup Battery # (0-3)		–	–
I54Yxy	The battery removed (Additional battery-y)	An Additional Battery Box was subtracted. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Battery Box # (0-1)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I54Z00	PS error inf. [FAN speed error code-z/z] (Unit-x, PS-y)	A fan error was detected in the Power Unit of the Basic Chassis or Additional Chassis. x : Unit ID # (0-59) y : Power Unit # (0-1) z : Optional code		① Perform the maintenance according to the message text “PS alarm” displayed at the same time. ② If this failure still occurs, replace Control Unit #0 or ENC Unit #0 in the same array. ③ If this failure still occurs, replace Control Unit #1 or ENC Unit #1 in the same array.	– Replacement “2.2.5 Replacing Control Unit” (REP 02-0450) Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
I55000	FAN error inf. [FAN speed error code-z/z] (Unit-x, FAN-y)	A fan error of the Basic Chassis or Additional Chassis was detected. x : Unit ID # (0-59) y : FAN Unit # (0-1) z : Optional code		① Perform the maintenance according to the message text “FAN alarm” displayed at the same time.	–
I55100	PS error inf. [FAN speed error code-y/y] (CTL-Unit, PS-x)	An error of the fan in the Power Unit was detected. x : Power Unit # (0-1) y : Optional code		–	–
I55200	FAN error inf. [FAN speed error code-y/y] (CTL-Unit, FAN-x)	An error of the fan was detected. x : FAN Unit # (0-1) y : Optional code		–	–
I55300	Please replace the Air Filter of Bezel	The Air Filter in the Front Bezel of the DC Power Unit passed the time for replacement.		① Replace the Air Filter in the Front Bezel of the DC Power Unit.	Replacement “3.3.2 Replacing the Air Filter of the Front Bezel” (REP 03-0050)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5G000	ENC error inf. [Header error] (Unit-x, ENC-y)	The ENC displayed in the message was blocked because it detected that the header of the SES data acquired from the ENC Unit of the Additional Chassis was abnormal. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” or “ENC recovery failed” displayed at the same time.	–
I5G100	ENC error inf. [Fixed No. error] (Unit-x, ENC-y)	The ENC displayed in the message was blocked because it was detected that the fixed value of the SES data acquired from the ENC Unit of the Additional Chassis was abnormal. x : Unit ID # (0-59) y : ENC Unit # (0-1)			
I5G200	ENC error inf. [SES Rev. error] (Unit-x, ENC-y)	The ENC displayed in the message was blocked because it was detected that the SES revision information of the SES data acquired from the ENC Unit of the Additional Chassis was abnormal. x : Unit ID # (0-59) y : ENC Unit # (0-1)			
I5G300	ENC error inf. [F/W Rev. error] (Unit-x, ENC-y)	The ENC displayed in the message was blocked because it was detected that the revision information of the ENC firmware of the SES data acquired from the ENC Unit of the Additional Chassis was abnormal. x : Unit ID # (0-59) y : ENC Unit # (0-1)			
I5G400	ENC error inf. [ECTL Rev. error] (Unit-x, ENC-y)	The ENC displayed in the message was blocked because it was detected that the revision information of ECTL of the SES data acquired from the ENC Unit of the Additional Chassis was abnormal. x : Unit ID # (0-59) y : ENC Unit # (0-1)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5G500	ENC error inf. [ENC Reboot error] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected from the acquired SES data that the ENC Unit of the Additional Chassis rebooted asynchronously with the command of the firmware of the array subsystem. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” or “ENC recovery failed” displayed at the same time.	–
I5G600	ENC error inf. [Slot No. error] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that the ENC number of the acquired SES data and that of the accessed Additional Chassis are mismatched. x : Unit ID # (0-59) y : ENC Unit # (0-1)			
I5G700	ENC error inf. [CUDG error code-z] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that a CUDG error occurred in the ENC Unit of the Additional Chassis by the SES data acquired from other system ENC of the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : Optional code			
I5G900	ENC error inf. [SXP error code-z] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that an SXP failure occurred in the ENC Unit of the Additional Chassis by the acquired SES data. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : Optional code			
I5GB00	ENC error inf. [Write error] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that the write data to the ENC and the read data from the ENC Unit are mismatched by the processing command to the ENC of the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5H000	Backend link error was detected (Unit-x, ENC-y)	The subsystem specified that the back-end Link failed part is the ENC Unit of the Additional Chassis displayed in the message. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5H100	Backend link error was detected (Unit-x, HDU-y)	The subsystem specified that the backend Link failed part was the HDU displayed in the message. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Perform the maintenance according to the message text “HDU alarm” displayed at the same time with this message.	–
I5H3xy (*1)	The search for the failure part of backend route error started (Path-x, Route-y)	Search (RES) of the failed part by the backend route started. x : Path # (0-7) y : Route # (0-1)		–	–
I5H4xy	The search for the failure part of backend route error ended (Path-x, Route-y)	Search (RES) of the failed part by the backend route was completed. x : Path # (0-7) y : Route # (0-1)		–	–
I5H50x	The backend postcode status error was detected (CTL-x)	A queue, whose transition status of POST of simple JOB is illegal, was detected. x : Control Unit # (0-1)	CTL Alarm Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

*1 : If the Control Unit # (Route # displayed in the message code I5H3xy) that displayed this message is blocked after displaying the message, the END message (message code I5H4xy) of the processing which searches the failed part of the back-end route is not displayed in the Information Message.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5H60x	The initialization of PCI Express failed because of the hardware error [DUAL] (CTL-X)	The initial setting of DUAL PCI Express of the Control Unit displayed in the message failed. x : Control Unit # (0-1)	CTL Alarm Trace	①Press the software reset button in 20 to 30 seconds after inserting the Control Unit in the Basic Chassis. If this message is displayed afterwards, disregard this message.	–
				②Replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
I5H700	ENC error count was over the threshold (Unit-x, ENC-y)	The count that received the SCSI status where the SCSI status code is check condition and the sense key is 4 (hardware error) or 5 (illegal request) from the ENC part of the Control Unit of the Basic Chassis displayed in the message or the ENC Unit of the Additional Chassis exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	①Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5H800	Added unit failed [ENC type error] (Unit-x, ENC-y)	When adding the Additional Chassis, an unsupported ENC Unit or Additional Chassis was detected in the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis to be added from the existing chassis.	Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				3. Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				4. Add the Additional Chassis correctly again.	–
				② 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis displayed in the message.	Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				3. Replace it to the Additional Chassis supported by the relevant system, and perform the addition again.	Addition/Removal/ Relocation “1.6 Adding the Additional Subsystem to the Rack Frame” (ADD 01-0660)
I5H900	Unsupported ENC was detected [ENC type error] (Unit-x, ENC-y)	When inserting the ENC Unit in the Additional Chassis, an unsupported ENC Unit was detected in the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5HA00	Added unit failed [Cable error] (Unit-x, ENC-y)	When adding the Additional Chassis, an improper connection of the ENC cable was detected. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis to be added from the existing chassis.	Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				3. Check the wiring of the ENC cable connected to the ENC Unit displayed in the message, and wire the ENC cable correctly again.	–
				4. Add the Additional Chassis correctly again.	Addition/Removal/ Relocation “1.6 Adding the Additional Subsystem to the Rack Frame” (ADD 01-0660)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5HB00	ENC recovery failed [Cable error] (Unit-x, ENC-y)	The ENC Unit recovery failed because improper connection of the ENC cables was detected when inserting the ENC Unit into the Additional Chassis or Linkdown was detected in the ENC Unit of any Additional Chassis by other routes. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① When the ALM LED on the front of the Basic Chassis lights up (the system of the device is shut down)	
				1. Disregard to the message text “W0Fze0 ENC alarm (Unit-x, ENC-y)” displayed at the same time.	–
				2. One or more ENC cables may be connected incorrectly to the backend path of the ENC Unit displayed in the message. Review all the ENC cable connections to the backend path of the ENC Unit displayed in the message.	–
				3. When some ENC cables are connected incorrectly, connect them correctly again.	–
				4. Refer to other displayed Information Messages and replace the failed parts.	Replacement “Chapter 2. Parts Replacement” (REP 02-0000)
				5. When the ENC cable connection is correct in Step ①-2. and the ENC Unit which has a paired number with the ENC Unit number displayed in this message (ENC Unit #1 for ENC Unit #0 or ENC Unit #0 for ENC Unit #1) is not replaced by the maintenance in Step ①-4., collect the simple trace to specify the failed parts and contact the Technical Support Center.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
				6. Turn off the main switch, and turn it on after 20 seconds or more have elapsed.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. If the ENC Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② When the ALM LED on the front of the Basic Chassis does not light up (the device is operating)	
				1. Disregard to the message text "W0Fze0 ENC alarm (Unit-x, ENC-y)" displayed at the same time.	–
				2. Remove the ENC Unit displayed in the message once.	Installation "2.4.2 (5) Removing ENC Unit" (INST 02-0380)
				3. One or more ENC cables may be connected incorrectly to the backend path of the ENC Unit displayed in the message. Review all the ENC cable connections to the backend path of the ENC Unit displayed in the message.	–
				4. When some ENC cables are connected incorrectly, connect them correctly again.	–
				5. Insert the ENC Unit into the Chassis again.	Installation "2.4.7 (5) Installing ENC Unit" (INST 02-0590)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Even if this message is still displayed and the ENC Unit does not recover, remove the ENC Unit displayed in the message once. When all ENC cables are connected correctly, refer to other displayed Information Messages and replace the failed parts (when replacing the ENC Unit which has a paired number with the ENC Unit # displayed in this message (ENC Unit #1 for ENC Unit #0 or ENC Unit #0 for ENC Unit #1), the array should complete planned shutdown before the replacement. For the planned shutdown, arrange the time and date with the customer/SE).	Replacement "Chapter 2. Parts Replacement" (REP 02-0000) Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				7. When the ENC Unit which has a paired number with the ENC Unit number displayed in this message (ENC Unit #1 for ENC Unit #0 or ENC Unit #0 for ENC Unit #1) is not replaced by the maintenance in Step ②-6., collect the simple trace to specify the failed parts and contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				8. Insert the ENC Unit in the chassis.	Installation "2.4.7 (5) Installing ENC Unit" (INST 02-0590)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5HC00	ENC error was detected [Linkdown] (unit-x, ENC-y)	Link down was detected in the ENC Unit of the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5HD00	Connection was break for hdu (Unit-x, HDU-y)	Invalid Frame was received. x : Unit ID # (1-59) y : Disk Drive # (0-23)		① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
I5HE00	D-SPC detected the offset error of the data frame (Unit-x, HDU-y)	Illegal OFFSET of the data frame was detected. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HF00	Transfer length overrun was detected (Unit-x, HDU-y)	SAS_CTL Rx Frame detected mismatch of transfer length (over run). x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HG00	Transfer length underrun was detected (Unit-x, HDU-y)	SAS_CTL Rx Frame detected mismatch of transfer length (UNDER RUN). x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HH00	Illegal NCQ command receive (Unit-x, HDU-y)	SAS_CTL received the invalid NCQ command. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HI00	Frame not detected time out (Unit-x, HDU-y)	It became STP inactivity timeout between D-SPC (Drive side SAS Protocol Chip) and the Disk Drive. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HJ00	Protocol check error was detected (Unit-x, HDU-y)	SAS_CTL received invalid Frame. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HK00	SATA Transport Error was detected (Unit-x, HDU-y)	SATA Transport Error was detected. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
I5HL00	Open Failure Bad Destination (Unit-x, ENC-y)	PHY of the ENC Unit of the Additional Chassis responded to the OPEN failure. OPEN failure (abandon) Bad Destination (EXPANDER) x : Unit ID # (1-59) y : ENC Unit # (0-1)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5HM00	Open Failure Wrong Destination (Unit-x, ENC-y)	OPEN failed and PHY responded because the results that performed routing of EXPANDER differed. OPEN failure (abandon) Wrong Destination (EXPANDER) x : Unit ID # (1-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5HN00	Open Failure Protocol Not supported (Unit-x, ENC-y)	OPEN failed and PHY responded due to the unsupported protocol. OPEN failure (abandon) Protocol Not supported (EXPANDER) x : Unit ID # (1-59) y : ENC Unit # (0-1)			
I5HP00	Open Failure STP Resource Busy (Unit-x, ENC-y)	The STP resource became BUSY. OPEN Failure (STP Resource Busy) (EXPANDER) x : Unit ID # (1-59) y : ENC Unit # (0-1)			
I5HQ00	Nexus Loss (Unit-x, ENC-y)	The connection (OPEN) between the ENC Unit of the Additional Chassis and D-SPC (Drive-side SAS Protocol Chip) failed. Nexus Loss (EXPANDER) x : Unit ID # (1-59) y : ENC Unit # (0-1)			
I5HR00	Illegal SMP response (Unit-x, ENC-y)	The D-SPC (Drive-side SAS Protocol Chip) detected an ENC Unit failure of the additional chassis (SAS_SMP_REQUEST). (The D-SPC received the illegal SMP response frame from the ENC Unit of the Additional Chassis.) x : Unit ID # (1-59) y : ENC Unit # (0-1)			
I5HS00	SMP response Frame error (Unit-x, ENC-y)	SMP response Frame was accepted normally, but an error response existed. (SAS_SMP_REQUESTE) x : Unit ID # (1-59) y : ENC Unit # (0-1)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5HT00	Illegal discover sas nodes receive (Unit-x, ENC-y)	Receipt of illegal SMP response Frame or SMP frame acceptance became timeout. (DISCOVER_SAS_NODES) x : Unit ID # (1-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5HU00	SMP response Frame error (Unit-x, ENC-y)	An error response of SMP response Frame existed. (DISCOVER_SAS_NODES) x : Unit ID # (1-59) y : ENC Unit # (0-1)			
I5HV00	SCSI response error of ENC was detected (Unit-x, ENC-y)	The D-SPC (Drive-side SAS Protocol Chip) received the status other than the status byte code is good, check condition, busy and queue full from the ENC Unit of the Additional Chassis displayed in the message. x : Unit ID # (0-59) y : ENC Unit # (0-1)			
I5HW00	HDU error [HDU Status = Command is not completed] (Unit-x, HDU-y)	Other status failures occurred due to the Disk Drive failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
I5HX00	HDU error [HDU Status = Busy] (Unit-x, HDU-y)	“status busy” occurred due to the Disk Drive failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I5HY00	HDU error [HDU Status = Queue full] (Unit-x, HDU-y)	“status queue full” occurred due to the Disk Drive failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)			
I5HZ00	HDU failure is detected [Command retry failed by PDEV time-out of HDU] (Unit-x, HDU-y)	It detected “PDEV TO failure retry over” of the command issued to the Disk Drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the blocked Disk Drive.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5I000	ENC failure is detected [Command retry failed by PDEV time-out of ENC] (Unit-x, ENC-y)	It detected "PDEV TO failure retry over" of the command issued to EXP. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Perform the maintenance according to the message text "ENC alarm" displayed at the same time.	–
I5I100	HDU replace failed [Linkup NG] (Unit-x, HDU-y)	The recovery of the Disk Drive failed because the inserted Disk Drive was not registered in the discover map. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text "HDU alarm" displayed at the same time.	–
I5I200	ENC recovery failed [Linkup NG] (Unit-x, ENC-y)	The recovery of the ENC Unit failed because the ENC Unit inserted in the Additional Chassis was not registered in the back-end discover map. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① 1. Check the wiring of the ENC cable connected to the ENC Unit displayed in the message, and wire the ENC cable correctly again.	–
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				② Replace the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				③ 1. If not recovered, replace the connection source of the ENC Unit (ENC Unit or Control Unit).	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	
				④ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5I400	The addition of the unit failed [Linkup NG] (Unit-x, ENC-y)	The addition of the Additional Chassis failed because the ENC Unit of the added Additional Chassis was not registered in the back-end discover map. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Perform the addition of the Additional Chassis from the beginning again.	–
I5I500	SCSI response of ENC was "BUSY" (Unit-x, ENC-y)	Expander responded "busy" for the status of the SCSI command response (SCSI STATUS ERROR BUSY (Expander)). x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message text "ENC alarm" displayed at the same time.	–
I5I600	SCSI response of ENC was "QUEUE FULL" (Unit-x, ENC-y)	Expander responded "Queue full" for the status of the SCSI command response. (SCSI STATUS ERROR QUEUE_FULL (Expander)) x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5I700	Expander error of the ENC was detected [04-3400] (Unit-x, ENC-y)	The ENC responded the check condition frame whose sense key/sense code is 04/3400. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5I800	Intermittent ENC error was over the threshold [04-3400] (Unit-x, ENC-y)	The count that received the check condition frame, whose sense key/sense code is 04/3400, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5I900	Expander error of the ENC was detected [05-****] (Unit-x, ENC-y)	The ENC responded the check condition frame whose sense key/sense code is 05/****. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message text "ENC alarm" displayed at the same time.	–
				② When this message is displayed at the time of downloading the Online ENC Firmware, load the ENC firmware into the maintenance PC again.	Troubleshooting "12.6.3 Online ENC Firmware Download" (TRBL 12-0120)
				③ Download the Online ENC Firmware again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5IA00	Intermittent ENC error was over the threshold [05-****] (Unit-x, ENC-y)	The count that received the check condition frame, whose sense key/sense code is 05/****, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5IB00	Expander error of the ENC was detected [05-CCCC] (Unit-x, ENC-y)	The ENC responded the check condition frame whose sense key/sense code is 05/CCCC. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5IC00	Intermittent ENC error was over the threshold [05-CCCC] (Unit-x, ENC-y)	The count that received the check condition frame, whose sense key/sense code is 05/CCCC, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5ID00	Expander error of the ENC was detected [0B-4400] (Unit-x, ENC-y)	The ENC responded the check condition frame whose sense key/sense code is 0B/4400. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5IE00	Intermittent ENC error was over the threshold [0B-4400] (Unit-x, ENC-y)	The count that received the check condition frame, whose sense key/sense code is 0B/4400, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5IF00	Expander error of the ENC was detected [0B-4B**] (Unit-x, ENC-y)	The ENC responded the check condition frame whose sense key/sense code is 0B/4B**. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5IG00	Intermittent ENC error was over the threshold [0B-4B**] (Unit-x, ENC-y)	The count that received the check condition frame, whose sense key/sense code is 0B/4B**, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5IH00	Expander error of the ENC was detected [Unexpected SSB] (Unit-x, ENC-y)	The ENC transmitted the check condition frame to which an unexpected sense key is set. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Perform the maintenance according to the message text “ENC alarm” displayed at the same time.	–
I5IJ00	Intermittent ENC error was over the threshold [Unexpected SSB] (Unit-x, ENC-y)	The count that received the check condition frame, to which an unexpected sense key is set, from the ENC exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace		
I5IK00	Expander error count of the ENC was over the threshold [CODE-z] (Unit-x, ENC-y)	D-SPC (Drive-side SAS Protocol Chip) detected a failure of the ENC and the failure count exceeded the threshold value. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : CODE # (0-FF)	Simple Trace		
I5IL00	HDU error count was over the threshold [CODE-z] (Unit-x, HDU-y)	D-SPC (Drive-side SAS Protocol Chip) detected a Disk Drive failure and the failure count exceeded the threshold value. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : CODE # (0-FF)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
I5J000	The power-on of the array unit failed [ENC type error] (Unit-x, ENC-y)	An unsupported ENC Unit was detected when the power of the chassis was turned on. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
I5J100	The power-on of the array unit failed [Cable error] (Unit-x, ENC-y)	An improper connection of the ENC cable was detected when the power of the chassis was turned on. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. Check the wiring of the ENC cable connected to the ENC Unit displayed in the message, and wire the ENC cable correctly again.	–
				2. Turn on the power of the chassis again.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5J200	ENC error inf. [RKAKX Product number error] (Unit-x, ENC-y)	The serial number of the Additional Chassis was unable to be acquired due to the SES access error of the ENC. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① When "ENC alarm" is displayed at the same time, replace the ENC Unit displayed in this message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				② 1. When this message is displayed while adding the Additional Chassis, remove the Additional Chassis displayed in this message from the subsystem.	Addition/Removal/ Relocation "1.6 Adding the Additional Subsystem to the Rack Frame" (ADD 01-0660)
				2. Replace the ENC Unit of the additional chassis displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				3. Add the Additional Chassis again.	Replacement "2.2.12 Replacing Additional Chassis of Rack Mount Style" (REP 02-1220)
I5J300	Product number error was detected [discrepancy between RKAKX-A and RKAKX-B] (RKAKX-x)	The serial number of the RKAKX did not match between the RKAKX-A and RKAKX-B. x : RKAKX Chassis # (0-18)		① 1. When this message is displayed while starting the subsystem, check if the ENC cable connected to the RKAKX is connected correctly.	–
				2. When the ENC cable is connected incorrectly, turn off the power of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				3. Connect the ENC cable correctly again.	–
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② 1. When this message is displayed while adding the RKAKX, check if the ENC cable of the added RKAKX displayed in the message is connected correctly.	–
				2. If the ENC cable is connected incorrectly, remove the RKAKX displayed in this message from the subsystem.	
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. Connect the ENC cable correctly again.	
				4. Add the RKAKX again.	Addition/Removal/ Relocation “1.6 Adding the Additional Subsystem to the Rack Frame” (ADD 01-0660)
I5J400	Product number error was detected [RKAKXs have same product number] (RKAKX-x, RKAKX-x)	Two RKAKXs which have the same serial number were detected. x : RKAKX Chassis # (0-18)		① 1. When this message is displayed while starting the subsystem, check if the ENC cable connected to the RKAKX is connected correctly.	–
				2. When the ENC cable is connected incorrectly, turn off the power of the subsystem.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				3. Connect the ENC cable correctly again.	–
				4. Turn on the power of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				② 1. When this message is displayed while adding the RKAKX, the serial number of the added RKAKX displayed in the message is duplicated with the RKAKX already connected to the subsystem. Therefore, replace the RKAKX itself.	–
				2. Add the RKAKX again.	Addition/Removal/ Relocation “1.6 Adding the Additional Subsystem to the Rack Frame” (ADD 01-0660)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5J500	Product number error was detected [discrepancy between ENCs of RKAKX] (RKAKX- (x-y))	The serial number of the RKAKX did not match between the ENCs. x : RKAKX Chassis # (0-18)		① 1. Replace the added RKAKX displayed in the message.	Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				2. Replace the ENC Unit of the added RKAKX displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				3. Add the RKAKX again.	Addition/Removal/ Relocation “1.6 Adding the Additional Subsystem to the Rack Frame” (ADD 01-0660)
I5J600	Added unit failed [Cable error] (Unit-x)	When adding the Additional Chassis, an improper connection of the ENC cable was detected. x : Unit ID # (0-59)		① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the ENC cables connecting the Additional Chassis to be added and the existing Chassis.	–
				3. The power cables may have been inserted into the power connectors loosely. Be sure to insert the power cables firmly into the power connectors on two Power Units of the chassis to be added.	–
				4. Check the wiring of the ENC cables connected to the chassis to be added, and wire the ENC cables correctly again.	–
				5. Add the Additional Chassis correctly again.	–
I5J700	The power-on of the array unit failed [Cable error] (Unit-x)	An improper connection of the ENC cable was detected when the power of the chassis was turned on. x : Unit ID # (0-59)		① 1. Check the wiring of the ENC cable connected to the ENC Unit displayed in the message, and wire the ENC cable correctly again.	–
				2. Turn on the power of the chassis again.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5JBxy	Backend route recovered (Path-x, Route-y)	The firmware detected that suspected failed part was removed in the Path displayed in the backend route message. x : Path # (0-7) y : Route # (0-1)		–	–
I5JCzx	Suspected failure part has been detected (CTL-x)	The firmware determined that suspected failed part could be the Control Unit displayed in the message as the result of identifying a failed part in the backend route. x : Control Unit # (0-1) z : Chassis type (Refer to (MSG 04-0000) for the detail)		① Perform the maintenance according to the message text “W40000 Backend route warning has been detected (Path-x, Route-y)” displayed at the same time.	–
I5JDe0	Suspected failure part has been detected (Unit-x, ENC-y)	The firmware determined that suspected failed part could be the ENC Unit displayed in the message as the result of identifying a failed part in the backend route. x : Unit ID # (0-59) y : ENC Unit # (0-1) e : ENC Unit type (Refer to (MSG 04-0000) for the detail)			
I5JEab	Suspected failure part has been detected (Unit-x, HDU-y)	The firmware determined that suspected failed part could be the Disk Drive displayed in the message as the result of identifying a failed part in the backend route. x : Unit ID # (0-59) y : Disk Drive # (0-23) a : Disk Drive type (Refer to (MSG 04-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 04-0000) for the detail)			
I5JF00	PS error info [PS status error code-y. z] (Unit-w, PS-x)	An error of the Power Unit was detected. w : Unit ID # (0-59) x : Power Unit # (0-1) y : Internal code z : Internal code	Simple Trace	① Perform the maintenance according to the message text “W07zy0 PS alarm (Unit-w, PS-x)” displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5JG00	PS error info [FAN speed error code-y. z] (Unit-w, PS-x)	An error of the fan in the Power Unit was detected. w : Unit ID # (0-59) x : Power Unit # (0-1) y : Internal code z : Internal code	Simple Trace	① Perform the maintenance according to the message text “W07zy0 PS alarm (Unit-w, PS-x)” displayed at the same time.	–
I5JH00	TWI access error was detected [TWI-z] (Unit-x, PS-y)	A failure occurred in TWI (Two Wire Interface) between the Power Unit and the ENC Unit. x : Unit ID # (0-59) y : Power Unit # (0-1) y : TWI (1-2)	Simple Trace	① Replace the Power Unit displayed in the message.	Replacement “2.2.4 Replacing Power Unit” (REP 02-0390)
				② If it does not recover, replace the ENC Unit in the remote system side (ENC-1 for PS-0 and ENC-0 for PS-1).	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				③ Even if it does not recover, replace the ENC Unit in the local system side (ENC-0 for PS-0 and ENC-1 for PS-1).	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				④ 1. If not recovered yet, perform the planned shutdown of the subsystem.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Replace the chassis displayed in the message.	Replacement “2.2.11 Replacing Basic Chassis of Rack Mount Style t” (REP 02-1160) Replacement “2.2.12 Replacing Additional Chassis of Rack Mount Style” (REP 02-1220)
				3. Check with the customer/SE for the maintenance work date.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5JJ00	ENC recovery failed [linkup error in the other route] (Unit-x, ENC-y)	By the SAS address check performed at the time of Control Unit replacement (checking whether the information on the backend path between the operating Control Unit and the Control Unit to be replaced is matched or not), the ENC Unit in LinkDown was detected by a failure of the ENC Unit which has the number paired with the Control Unit to be replaced (ENC Unit #1 in case of ENC Unit #0 and ENC Unit #0 in case of ENC Unit #1), the Control Unit recovery failed. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	Disregard to the message text “W0Fze0 ENC alarm (Unit-x, ENC-y)” displayed at the same time.	
				① 1. When the ALM LED on the front of the Basic Chassis lights up (the system of the device is shut down), refer to the other output Information Message, and replace the failed part.	Replacement “Chapter 2. Parts Replacement” (REP 02-0000)
				2. Turn off the main switch, and turn it on after 20 seconds or more have elapsed.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				3. 1. By the maintenance in ①-1, if the ENC Unit which has the number paired with the ENC Unit number displayed in this message (ENC Unit #1 in case of ENC Unit #0 and ENC Unit #0 in case of ENC Unit #1) is not replaced, collect the simple trace to identify the failed part, and contact the Technical Support Center.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
				2. If the ENC Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② 1. When the ALM LED on the front of the Basic Chassis does not light up (the device is operating), refer to the other output Information Message, and perform the maintenance (for replacing the ENC Unit which has the number paired with the ENC Unit number displayed in this message (ENC Unit #1 in case of ENC Unit #0 and ENC Unit #0 in case of ENC Unit #1), it is necessary to perform the planned shutdown of the device in advance. Discuss the date and time with the customer/SE for performing the planned shutdown of the device).	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. 1. By the maintenance in ②-1, if the ENC Unit which has the number paired with the ENC Unit number displayed in this message (ENC Unit #1 in case of ENC Unit #0 and ENC Unit #0 in case of ENC Unit #1) is not replaced, collect the simple trace to identify the failed part, and contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				2. By the maintenance in ②-1, when the planned shutdown of the device is performed, if the ENC Unit displayed in this message is blocked again after restarting the device, perform the maintenance according to the newly displayed message.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I5L500	HDU recovered from self-reboot (Unit-x, HDU-y)	The drive self-reboot is completed and the Disk Drive recovered from the "Not Ready" status which repeats the sense key/sense code (02/0401) response to the accessible status. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I5YB00	Loop S1 error (Path-x, Loop-y)	The error count of LOOP S1 exceeded its threshold value. x : Path # (0-7) y : Loop # (0-1)		–	–
I5YP00	ENC microprogram download info. (Revision Check NG Unit-x ENC-y)	The firmware revision acquired from the ENC Unit of the Additional Chassis that replaced the ENC firmware was different from the uploaded ENC firmware revision. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
I5YY00	ENC error inf. [PK error code-z] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that a package failure occurred in the ENC Unit of the Additional Chassis from the acquired SES data. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : Optional code		① Perform the maintenance according to the message text "ENC alarm" or "ENC recovery failed" displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6010x	LAN failure (CTL-x)	The LAN state is invalid. x : Control Unit # (0-1)		① Confirm the LAN cable. ② A Replace the Control Unit of the No. indicated with x.	– Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
I603xy	Obstacle part unknown (Path-x, Loop-y)	Failed part was not identified by Loop diagnosis. x : Path # (0-7) y : Loop # (0-1)	Simple Trace	① When one of the following messages is displayed before this message, take recovery actions according to the message. • W01z0x "CTL alarm" • W09zab "HDU alarm" • W0Azab "SATA HDU alarm" • W0Bzab "Spare HDU alarm" • W0Czab "SATA Spare HDU alarm" • W0Fze0 "ENC alarm" • W0Gze0 "SENC alarm" • I30100 "HDU error" • I301AT "SATA HDU error"	–
I6070x	CACHE error over (CACHE-x) [CRECT]	The occurrence count of cache correctable errors exceeded the threshold value by the DMA transfer. (during the single system operation.) x : Cache Unit # (0-3, *)		① 1. Perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE. 2. Replace the other Cache Unit in the message. (it cannot be replaced with the subsystem power turned on) 3. If not recovered, Execute the planned shutdown of the subsystem again. 4. Replace the Control Unit installed in the Cache Unit in the message. (it cannot be replaced with the subsystem power turned on)	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I60D00	Data pool has enough free space (Data pool-x)	The usage rate of the pool which was exceeding the threshold value of the user setting decreased to less than the threshold value of the user setting that PFUS is released. x : Data pool # （0-63）		–	–
I61000	ENC error inf. [parity error]	Because a parity error occurred in the ENC, the ENC concerned was blocked.		–	–
I61D00	Shutdown Warning	The cache volatilized because the previous sequential shutdown had not been executed.		① From the next time on, turn off the power using the main switch.	–
I61E00	PIN-over [Forced parity correction]	A parity correction was terminated because an amount of pinned data exceeded its threshold value.	Simple Trace	–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I620xy	Link error was detected in the attached link (Port-xy)	The link system failure on the link where the board displayed in the message is connected occurred more than the threshold value count within the fixed time. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Perform the maintenance referring to Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure".	Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure" (TRBL 05-0000)
I621xy	Link error in the path	The illegal transferred data length occurred more times than the threshold value within a certain period caused by a failure that had occurred in the path concerned. x : Path # (0-7) y : Target ID (0)	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I622xy	Link down time-out was detected (Port-xy)	The port displayed in the message and in which the remote path is set has not linked up for more than the specified time. x : Control Unit # (0-1) y: Port # (A-H)	Simple Trace	When a port is a Fibre Channel interface ① 1. When the port displayed in the message has the link-up record, ask the customer/SE for the cooperation and replace any of the connection devices on the Fibre Channel link where the port displayed in the message is established (Interface Board in which the port displayed in the message is installed, host connector of the port displayed in the message, optical cable, GBIC <Fibre Channel Switch, HBA>, Fibre Channel Switch, Interface Board of the remote subsystem, host connector of the remote subsystem, extender, etc.). 2. Check that the Fibre Channel link links up and "Path alarm" recovers. To be continued to the next page.	– –

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② 1. When the port displayed in the message has no link-up record, request the customer/SE to check if the following items are satisfied for the settings of the port displayed in the message and the port to be connected directly. •"Transfer rate" is the same or "transfer rate" supported by both ports exists, and a setting expected as a system is executed. •Topology is the same. •"Port address" is unmatched.	–
				2. If not recovered, ask the customer/SE for the cooperation and replace any of the connection devices on the Fibre Channel link where the port displayed in the message is established (Interface Board in which the port displayed in the message is installed, host connector of the port displayed in the message, optical cable, GBIC <Fibre Channel Switch, HBA>, Fibre Channel Switch, Interface Board of the remote subsystem, host connector of the remote subsystem, extender, etc.)	–
				3. Check that the Fibre Channel link links up and "Path alarm" recovers.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				③ Refer to Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure".	Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure" (TRBL 05-0000)
				When a port is an iSCSI interface	
				① 1. When the port displayed in the message has the link-up record, ask the customer/SE for the cooperation and replace any of the connection devices on the link where the port concerned displayed in the message is established (Interface Board in which the port displayed in the message is installed, LAN cable, LAN Switch, Interface Board of the remote subsystem).	–
				2. Check that the iSCSI link links up and "Path alarm" recovers.	–
				② 1. When the port displayed in the message has no link-up record, request the customer/SE to check if the following items are satisfied for the settings of the port displayed in the message and the port to be connected directly. •"Negotiation mode (transfer rate, full duplex/half duplex)" is the same or "transfer rate" supported by both ports exists and a setting expected as a system is executed.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Ask the customer/SE for the cooperation and replace any of the connection devices on the link where the port displayed in the message is established (Interface Board in which the port displayed in the message is installed, LAN cable, LAN Switch, Interface Board of the remote subsystem, etc.).	–
				3. Check that the iSCSI link links up and “Path alarm” recovers.	–
				③Refer to Troubleshooting “Chapter 11. Procedure for the iSCSI System Failure Determination on the Disk Array System Side”.	Troubleshooting “Chapter 11. Procedure for the iSCSI System Failure Determination on the Disk Array System Side” (TRBL 11-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I623xy	The target of remote path cannot be connected (Port-xy)	<In the case of the direct connection> Although the array subsystem displayed in the message tried to log in the remote subsystem, the remote subsystem was not connected. Alternatively, when the port displayed in the message linked up, the Loop Map of LILP indicated "the node on the Loop is not one-to-one connection" (although Fabric Switch is not connected, the subsystem other then two array subsystems, the array subsystem which displayed the message the remote subsystem of the remote site of the remote copy, is connected). <In the case of the connection via SW> Although the array subsystem displayed in the message tried to log in the remote subsystem, the serial number (WWN) of the remote subsystem was not registered in NameServer of SWFabric Switch. <iSCSI port> The connection and login from the array subsystem which displayed the message to the array subsystem of the remote site of the remote copy were terminated abnormally or timed out. < When remote subsystem is AMS2100/2300/2500> In case of AMS2100/2300/ 2500 whose H/W revision of the remote subsystem is "0200", the firmware version of AMS2100/2300/2500 of the local subsystem was "less than 0890/A". < When remote subsystem is AMS200/WMS100> • The firmware version of AMS200/WMS100 of the remote subsystem was "less than 0760". • The 4 Gbps Fibre Channel interface board option was not installed in AMS200/WMS100 of the remote subsystem. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	When a port is a Fibre Channel interface ① 1. Request the customer/SE to check if the setting of the remote path of the array subsystem which displayed the message and the setting of the remote path of the remote subsystem (interface type, remote array ID, local port #, remote port #) are correct. 2. When the setting of the remote path is incorrect, request the customer/SE to delete the remote path consists of the ports displayed in the message, and then create the remote path again using the correct setting value. ② 1. Request the customer/SE to check if the connection devices between the array subsystem which displayed the message and the remote subsystem of the remote site (array subsystem displayed in the message, optical cable, GBIC <Fibre Channel Switch HBA>, Fibre Channel Switch, remote subsystem of the remote copy, extender, etc.) are connected correctly.	– – –

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When the connection devices are not connected correctly, request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to the "User's Guide" of the remote copy after reconstructing the system.	"User's Guide" of the remote copy
				③ 1. Ask the customer/SE for the cooperation and replace any of the connection devices between the array subsystem which displayed the message and the remote subsystem of the remote site of the remote copy (Interface Board in which the port displayed in the message is installed, host connector of the port displayed in the message, optical cable, GBIC <Fibre Channel Switch, HBA>, Fibre Channel Switch, Interface Board of the remote subsystem, host connector of the remote subsystem, extender, etc.)	–
				2. Request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				④ 1. Refer to Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure".	Troubleshooting "Chapter 5. Procedure for Investigating Disk Array System Regarding Fibre Channel Failure" (TRBL 05-0000)
				2. Request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				When a port is an iSCSI interface	
				① 1. Request the customer/SE to check if the remote port IP address set to the array subsystem which displayed the message and the remote port TCP port number match the IP address of the remote subsystem by the remote path consists of the ports which displayed the message and the TCP port number.	–
				2. When the setting value between the array subsystem which displayed the message and the remote subsystem of the remote site does not match, delete the remote path, and then create the remote path again using the same setting value between the array subsystem which displayed the message and the remote subsystem of the remote site.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② Request the customer/SE to check that the remote system of the remote copy is starting.	–
				③ 1. Request the customer/SE to check if the connection devices between the array subsystem which displayed the message and the remote subsystem of the remote site (Interface Board in which the port displayed in the message is installed, LAN cable, LAN Switch, interface board of the remote subsystem, WAN Optimization Controller <WOC>, etc.) are connected correctly.	–
				2. When the connection devices are not connected correctly, request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to the "User's Guide" of the remote copy after reconstructing the system.	"User's Guide" of the remote copy
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				④ 1. Ask the customer/SE for the cooperation and replace any of the connection devices between the array subsystem which displayed the message and the remote subsystem of the remote site of the remote copy (Interface Board in which the port displayed in the message is installed, LAN cable, LAN Switch, Interface Board of the remote subsystem, WAN Optimization Controller <WOC>, etc.).	–
				2. Request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				⑤ 1. Refer to Troubleshooting "Chapter 11. Procedure for the iSCSI System Failure Determination on the Disk Array System Side".	Troubleshooting "Chapter 11. Procedure for the iSCSI System Failure Determination on the Disk Array System Side" (TRBL 11-0000)
				2. Request the customer/SE to check that "Path alarm" is recovered by executing the recovery of the remote path on WEB according to "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				When remote subsystem is AMS2100/2300/2500 and H/W revision is “0200”	
				① Make the firmware version of AMS2100/2300/2500 of the local subsystem “0890/A or more”.	–
				When remote subsystem is AMS200/WMS100	
				① 1. In case of AMS2100/2300/2500 whose H/W revision of the local subsystem is “0100”, make the firmware version of the remote subsystem “0780/A or more”.	–
				2. In case of AMS2100/2300/2500 whose H/W revision of the local subsystem is “0200”, make the firmware version of the remote subsystem “0786/A or more”.	–
				3. When the 4 Gbps Fibre Channel interface board option is not installed in the remote subsystem, install it.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I624xy	Login resources of remote array for remote copy are not enough (Port-xy)	<Fibre Channel port> When the array subsystem which displayed the message logged in the remote subsystem of the remote site of the remote copy by the set remote path, "Since the ports of the remote subsystem are connected to the maximum number of initiators, the array subsystem which displayed this message cannot log in the port of the remote subsystem." is reported by the response by the PLOGI command from the remote subsystem. <iSCSI port> When the array subsystem which displayed the message logged in the remote subsystem of the remote site of the remote copy by the set remote path, "Since the ports of the remote subsystem are connected to the maximum connectable number of initiators, the array subsystem which displayed this message cannot log in the port of the remote subsystem." is reported by the login response from the remote subsystem. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	When a port is a Fibre Channel interface	
				① 1. Request the customer/SE to reduce one or more host computers connected to the ports of the remote subsystem of the remote copy by the remote path consists of the ports displayed in the message.	–
				2. Request the customer/SE to execute the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				When a port is an iSCSI interface	
				① 1. Request the customer/SE to check if the priced option of the remote copy is unlocked in the remote subsystem of the remote site viewed from the array subsystem displayed in the message.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				2. When the priced option of the remote copy was not unlocked, request the customer/SE to unlock the priced option of the remote copy.	
				3. Request the customer/SE to execute the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② 1. Request the customer/SE to check if the other unexpected array subsystem (B) logs in the port of the remote subsystem (A) of the remote site viewed from the array subsystem displayed in the message as the remote copy connection (concretely, the serial number of the remote subsystem (A) of the remote site is set as the remote array ID in the remote path property window of Hitachi Storage Navigator Modular 2 for the other unexpected array subsystem (B)).	–
				2. When the other unexpected array subsystem (B) logs in the port of the remote subsystem (A) of the remote site as the remote copy connection, request the customer/SE to delete the remote path of the other unexpected array subsystem (B).	–
				3. Request the customer/SE to execute the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
				③ 1. Request the customer/SE to reduce one or more host computers connected to the ports of the remote subsystem of the remote copy by the remote path consists of the ports displayed in this message.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Request the customer/SE to execute the recovery of the remote path on WEB according to the "User's Guide" of the remote copy.	"User's Guide" of the remote copy
I625xy	Fabric connection failed (Port-xy)	The transmission or response of the FLOGI, PLOGI, RCS_ID, SCR or RSCN frame which tried to be issued to Fabric Switch terminated abnormally by the login sequence for the remote-side disk array system of the set remote path (a failure that the frame of the login sequence is damaged or timed out has occurred between the array subsystem and Fabric Switch). x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Replace the Fibre Channel Interface Board.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② Replace the host connector.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
				③ Replace the optical cable, extender, GBIC of Switch, Switch itself, etc.	Refer to manual of each product.
I62600	Path login failed	Sending and response of PLOGI and PRLI done at the time of a log-in to the set path terminated abnormally.	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I62700	Link down time-out [Path]	To a port for which a path has been set but no link up to the path has been done for longer than the regulated time, a setting of another path was requested.	Simple Trace		
I62800	Path alarm for CTL alarm	The path was detached as a result of the CTL detachment.	Simple Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
I62900	Remote equipment ID error	Path detach occurred due to inconsistency of remote equipment IDs.	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I62A00	Remote option disable [RVRF]	A path detachment occurred because the optional function of the remote DF was locked.	Simple Trace		
I62B00	Port un-mounting error	A path detachment occurred because the port was not installed.	Simple Trace		
I62D00	Remote option disable [TrueCopy Basic]	A path detachment occurred because the optional TrueCopy remote replication function of the remote DF was locked.	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I63000	Write uncompleted block detected	An incomplete writing was detected at the time of the staging in a data copying from the primary LU to the secondary LU.	Simple Trace	① Reformat the LU concerned.	System Parameter "3.3 [Procedure ③-F] Formatting LU" (SYSPR 03-0290)
I69000	E-Mail parameter set failed	A setting of the E-mail parameters failed when making initial settings of the E-mail.	Simple Trace	① Check the E-mail parameters and make the setting again.	–
I69100	E-Mail send failed	A sending of a mail for informing of a failure occurrence failed.	Simple Trace		
I6C000	LU ownership was changed (LU-x/y->z)	The switching in LU unit occurred. x : LU # (0-4095) y : Directory # before switching (last two digits : 0-1) Core # of MPU (first two digits : 0-1) z : Switching destination directory # (last two digits : 0-1) Core # of MPU (first two digits : 0-1)		–	–
I6D000	Data pool does not have free space (Data pool-x)	The usage of the pool increased and there was no free capacity of the pool. x : Data pool # (0-63)	Simple Trace	① 1. Delete an unnecessary pair in the SnapShot pair which is using the pool displayed in the message. Or secure the pool capacity by adding an LU to the pool. As for the methods above, ask the user to execute the methods. 2. When the pair changed to PSUE is a SnapShot pair, release the pair, and then create a pair again. When the pair changed to PSUE is a TrueCopy Extended Distance pair, resynchronize the pair. As for the methods above, ask the user to execute the methods.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6D100	Data pool utilization is over the threshold (Data pool-x)	The usage rate of the pool exceeded the threshold value set by the user. x : Data pool # (0-63)		① Delete an unnecessary pair of SnapShot or TrueCopy Extended Distance, and increase the free capacity of the pool. Or increase the free capacity of the pool by adding an LU to the pool. As for the methods above, ask the user to execute the methods.	–
I6D300	Unreadable PIN resisted (Unit-x, HDU-y, LU-z)	The write incomplete area was registered in the P-VOL because there was the unreadable area in the pool LU during the restoration of the P-VOL of Copy-on-write SnapShot. Or the incomplete write was registered in the S-VOL because there was the unreadable area in the pool LU when restoring the S-VOL due to S-VOL-Takeover as a result of executing the [horctakeover] command with TrueCopy Extended Distance. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : LU # (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.15 The Incomplete Write Area was Registered in the Restored VOL".	Troubleshooting "6.1.15 The Incomplete Write Area was Registered in the Restored VOL" (TRBL 06-0770)
I6D400	Remote path setting unsupported on the remote Subsystem	It was the firmware that the remote subsystem (subsystem of the communication partner) was unsupported.	Simple Trace	① 1. Update the firmware of Ver. 6.2/A or more.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				2. Execute the path recovery instruction from WEB/Hitachi Storage Navigator Modular 2.	–
I6D500	PSUE occurred [TrueCopy Basic]	The subsystem was started up with the cache that had volatilized owing to a power failure when a TrueCopy remote replication pair is in the status other than SMPL.	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I6D600	SENC error [Queue Full] (Unit-x, ENC-y)	The ENC Unit of the Additional Chassis responded to Queue full which is theoretically impossible. x : Unit ID # (1-59) y : SENC Unit # (0-1)		① Perform the maintenance according to the message text "ENC alarm" displayed at the same time.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6DH00	Staging failed [Forced parity correction] (LU-x)	The correction cannot be made because the forced parity correction is in progress. x : LU # (0-4095)	Simple Trace	① Get the simple trace after the forced parity correction is completed and contact the department for coping with troubles.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
I6DJ00	Forced parity correction LU is gone	The LU that required the forced parity correction disappeared.		–	–
I6DK00	Incomplete differential data detected	An incomplete DDCB was detected in the cascade connection of Copy-on-write SnapShot with TrueCopy remote replication/TrueCopy Extended Distance.	Simple Trace	① Split the TrueCopy remote replication/TrueCopy Extended Distance pair. When forming the pair again, form a Copy-on-write SnapShot pair first and then form a TrueCopy remote replication/TrueCopy Extended Distance pair.	–
I6DL00	P-VOL read failed [TrueCopy Basic]	The P-VOL became unable to be read.			
I6DM00	QuickShadow SMPL command received [TrueCopy Basic]	Copy-on-write SnapShot received a command to split its pair.			
I6DN00	Uncorrectable forced parity correction LU is gone	The LU, the forced restoration for which by means of parity could not be continued, disappeared.		–	–
I6DP00	Bitmap Data Error [TrueCopy Basic]	Data of a TrueCopy remote replication pair may have been lost.		① Split a pair whose LU, which is in RAID 1 or RAID 1+0 TC and has a capacity of 1 T bytes or larger, is in the PSUE status. If an LU next to the LU concerned is in the PSUE status, split it also.	–
I6DQ00	The change process of DP management information has started (Pool-x)	The change processing of the DP management information by creating, adding the capacity of, deleting or reinitializing the DP Pool started. x : Pool # (0-63)		–	–
I6DR00	The change process of DP management information has completed (Pool-x)	The change processing of the DP management information by creating, adding the capacity of, deleting or reinitializing the DP Pool terminated. x : Pool # (0-63)		–	–
I6DS00	Cable connection detected (Unit-x, ENC-y, Path-z)	The ENC cable of the chassis #, ENC # and PATH # displayed in the message was connected (for the exclusive of the self heatrun system). x : Unit ID # (1-59) y : ENC Unit # (0-1) z : Path # (0-7)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6DY00	Drive response diagnosis detected the slowdown of HDU I/O performance (Unit-x, HDU-y)	When the I/O performance of the Disk Drive is monitored for a certain period of time, it detected that the I/O performance of the Disk Drive displayed in the message is extremely inferior to other Disk Drives in the RAID group to which the Disk Drive belongs (in case of RAID 1, the I/O performance of the Disk Drive displayed in the message is inferior to the expected value). x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time with this message. ② Replace the Disk Drive displayed in the message.	– Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
I6E200	ENC error inf. [Write error code-z] (Unit-x, ENC-y)	The ENC Unit displayed in the message was blocked because it detected that an SES write failure occurred in the ENC Unit of the Additional Chassis by the acquired SES data. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : Optional code		① Perform the maintenance according to the message text “ENC alarm” or “ENC recovery failed” displayed at the same time.	–
I6E400	Ownership change by LU failed (LU-x)	The change of the LU unit failed because of the heavy I/O load given by a host computer. x : LU # (0-4095)	Simple Trace	① Try again after giving some pause to operation of Hitachi Storage Navigator Modular 2 or RAID Manager. ② When operation of RAID Manager failed, a pair status of TrueCopy remote replication, TrueCopy Extended Distance, ShadowImage in-system replication, or Copy-on-write SnapShot has been changed to PSUE. Therefore, change the status from PSUE first. ③ When the operation is not successful after trying it twice, stop the job and then perform the operation.	–
I6E500	TWSI access error was detected [Read, xx-yy-aa]	An error was detected when read of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code	Simple Trace	–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6E600	TWSI access error was detected [Write, xx-yy-aa]	An error was detected when write of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code	Simple Trace	–	–
I6EF00	Forced parity correction LU changed status	Because the forced parity correction was executed or skipped, the LU that was in the forced parity correction status of "Uncorrected and Drive Detached" (which indicates that an instruction to execute or skip the forced parity correction is required), no longer exists.		–	–
I6EG00	PIN over recovered [directory threshold] (DIR-x)	The excess of the threshold value of pinned data in each directory was solved. (Directory: Unit of cache domain management) x : Directory # (0 or 1)		–	–
I6EH00	PIN over recovered [partition threshold] (DIR-x, PTT-y)	The excess of the threshold value of pinned data in each partition was solved. x : Directory # (0 or 1) y : Partition # (0-31)		–	–
I6EJ00	PIN over recovered [RAID group threshold] (DIR-x, RG-y)	The excess of the threshold value of pinned data in a RAID group was solved. x : Directory # (0 or 1) y : RAID group # (0-99)		–	–
I6EK00	DM-LU canceled (LU-x)	The write disabled DM-LU was cancelled (Display of the DM-LU cancellation message). x : LU # (0-4095)		–	–
I6EL00	DM-LU read failed	When the subsystem was booted, reading from the DM-LU failed owing to a trouble such as a drive error.	Simple Trace	① Replace the Disk Drive pointed out in the message, "HDU alarm. (Resolve the pair and reform it.)	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I6EM00	DM-LU recovered (LU-x)	The DM-LU was recovered from the trouble. x : LU # (0-4095)		–	–
I6EN00	DM-LU write enable	The deliberate shutdown was enabled because the DM-LU, which was accessible for writing, was created.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6EP00	Changing to Single Mode failed as Cache Partition Manager is enable	The system start attribute was changed although the Cache partition management function was effective.	Simple Trace	① Restore the system start attribute.	System Parameter "4.2 (1) Setting Boot Options" (SYSPR 04-0050)
	Changing to Dual Active Mode failed as Cache Partition Manager is enable			② Restart the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
I6ER00	Modular Volume Migration failed (LU-x/y)	One Modular Volume Migration terminated abnormally. x : Internal LU # of the P-VOL (0-4095) y : Internal LU # of the S-VOL (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.16 Recovery Method of the Modular Volume Migration which Terminated Abnormally".	Troubleshooting "6.1.16 Recovery Method of the Modular Volume Migration which Terminated Abnormally" (TRBL 06-0790)
I6ES00	Modular Volume Migration failed	One or more Modular Volume Migrations terminated abnormally.	Simple Trace		
I6EV00	Drive spin down canceled [ERR-x] (RG-y)	The instruction of the spin-down of the Disk Drive to aim at the power saving was accepted from Hitachi Storage Navigator Modular 2. x : Factor code 1 : Failure due to the I/O from the host 2 : Failure due to the copy system PP command existed 3 : Failure due to the I/O from the host and the copy system PP command existed 4 : Failure due to the failure occurrence 16 : Failure due to the planned shutdown or the power-off of the array. y : RAID group # (0-99)	Simple Trace	In case the factor code is "01" ① 1. A command is issued from the initiator for the LUs created in the RAID Group displayed in the message, so that stop all the operations which use these LUs, and request the customer/SE to change the customer's system to the status that the command is not issued to these LUs. 2. Request the customer/SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	– –

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				In case the factor code is “02”	
				② 1. The operation of the copy system function (one of Modular Volume Migration, TrueCopy Extended Distance, TrueCopy remote replication, copy-on-write SnapShot and ShadowImage in-system replication, or two or more functions) of the priced option is being executed from RAID Manager for the LUs created in the RAID Group displayed in the message, so that wait for the maintenance work until the processing of the copy system function for these LUs is completed.	–
				2. Request the customer/ SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–
				In case the factor code is “03”	
				③ 1. The operation of the copy system function (one of Modular Volume Migration, TrueCopy Extended Distance, TrueCopy remote replication, copy-on-write SnapShot and ShadowImage in-system replication, or two or more functions) of the priced option is being executed from RAID Manager for the LUs created in the RAID Group displayed in the message, so that wait for the maintenance work until the processing of the copy system function for these LUs is completed.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. A command is issued from the initiator for the LUs created in the RAID Group displayed in the message, so that stop all the operations which use these LUs, and request the customer/ SE to change the customer's system to the status that the command is not issued to these LUs.	–
				3. Request the customer/ SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–
				In case the factor code is "04"	
				④ 1. One of the following message codes is displayed in the Information Message of WEB. Perform the maintenance according to the recovery method of the message code. • I30100 HDU error (Unit-x, HDU-y) • W0L000 Unreadable PIN detected (Unit-x, HDU-y) • W0M000 Unreadable PIN detected (Unit-*, HDU-*) • W0R000 User data lost (LU-x) • W3G000 PIN is over directory threshold [write through] (DIR-x) • W3J000 PIN is over partition threshold [write through] (DIR-x, PTT-y) • W3L000 PIN is over RAID group threshold [write through] (DIR-x, RG-y)	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Request the customer/ SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–
				In case the factor code is “16”	
				⑤ Request the customer/ SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–
I6EY00	Power saving recovery failed and power saving of the disk drives was canceled (RG-x)	The post-processing of the failure of the Disk Drives to which the spin-down of the power saving was set terminated abnormally. Therefore, the spin-down setting of the power saving for the RAID Group displayed in the message was cancelled. x : RAID group # (0-99)	Simple Trace	① 1. When the factor code is four, one of the following message codes is displayed in the Information Message of WEB. At first, remove the PIN segment according to the recovery method of the message code. • W0L000 Unreadable PIN detected (Unit-x, HDU-y) • W0M000 Unreadable PIN detected (Unit-*, HDU-*) • W3G000 PIN is over directory threshold [write through] (DIR-x) • W3J000 PIN is over partition threshold [write through] (DIR-x, PTT-y) • W3L000 PIN is over RAID group threshold [write through] (DIR-x, RG-y)	–
				2. Request the customer/SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6EZ00	Health check failed and power saving of the disk drives was canceled (RG-x)	The health check for the power saving Disk Drives which were spin-down terminated abnormally due to the drive failure. Therefore, the spin-down setting of the power saving for the RAID Group displayed in the message was cancelled. x : RAID group # (0-99)	Simple Trace	① 1. When the factor code is four, one of the following message codes is displayed in the Information Message of WEB. At first, remove the PIN segment according to the recovery method of the message code. • W0L000 Unreadable PIN detected (Unit-x, HDU-y) • W0M000 Unreadable PIN detected (Unit-*, HDU-*) • W3G000 PIN is over directory threshold [write through] (DIR-x) • W3J000 PIN is over partition threshold [write through] (DIR-x, PTT-y) • W3L000 PIN is over RAID group threshold [write through] (DIR-x, RG-y)	–
				2. Request the customer/SE to execute the spin down of the Disk Drive to aim at the power saving from Hitachi Storage Navigator Modular 2 again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6F90x	[CSDS] The double error detection retry was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected "retry" of the "Double error". x : Control Unit # (0-1)	Simple Trace	① 1. When the subsystem is a dual controller system, any of the following messages is already displayed. Therefore, perform the maintenance according to the message. • In case of the Control Unit blockade "W01z0x CTL alarm" • In case of the ENC blockade "W0Fze0 ENC alarm"	–
I6FA0x	[CSDS] The correctable read memory error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected "correctable read". x : Control Unit # (0-1)	Simple Trace		
I6FB0x	The correctable PCIe device error was over the threshold [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected the correctable error of the PCI Express device. x : Control Unit # (0-1)	Simple Trace		
I6FC0x	The specific correctable PCIe unit error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected the correctable error other than the PCI Express standard. x : Control Unit # (0-1)	Simple Trace	2. Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
I6FD0x	The correctable PCI Express error message was received [0xyyyyyyyy] (CTL-x)	The chipset detected the correctable error of the PCI Express standard. x : Control Unit # (0-1)	Simple Trace	② 1. When the subsystem is a single controller system, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the subsystem power.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6FExx	Microprogram error [BKW] (code-x)	Logical discrepancy of the firmware occurred (backend monitoring). x : Optional code	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
I6FF00	ENC recovery failed (Unit-x, ENC-y)	The ENC Unit replacement of the Additional Chassis failed due to an ENC Unit failure. x : Unit ID # (0-59) y : ENC Unit # (0-1)	Simple Trace	① Replace the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
I6G000	The I/F type of the disk drive is different from other system drives (Unit-x HDU-y)	The drive of a different type (SAS Disk Drive/ SAS7.2K Disk Drives/Flash Drive/SATA Disk Drive) from other system drives was inserted in the system drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Replace the Disk Drive displayed in the message to the same type of the Disk Drive as other system drives.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I6G100	The serial number of the HDU is different from the configuration info (Unit-x HDU-y)	It was detected that the serial number of the inquiry data acquired from the drive or the drive type name was different from the value acquired at the last spinup when starting the subsystem or spinning up the drive which was spun down due to electric power saving. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① 1. Check if the order to connect the Additional Chassis is not different from that the subsystem was Ready before. If it is different, turn off the subsystem power.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Connect the ENC cable again so that the order to connect the Additional Chassis becomes the same as that the subsystem was Ready before.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. Turn on the subsystem power.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				② 1. Check if each ENC cable is connected correctly between the expected chassis. If there is any ENC cable that is not connected correctly, turn off the subsystem power.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Connect the ENC cable correctly again.	–
				3. Turn on the subsystem power.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				③ 1. Check if each ENC cable is connected to the ENC connector of the expected Control Unit or to the ENC connector of the ENC. If there is any ENC cable that is not connected correctly, turn off the subsystem power.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Connect the ENC cable correctly again.	–
				3. Turn on the subsystem power.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				④ This message is output when the Disk Drive is replaced while the Power Unit of the subsystem or the Additional Chassis is turned off. In this case, perform the dummy replacement (*1) of the Disk Drive displayed in this message.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
				⑤ If the Disk Drive is not recovered yet, replace the Disk Drive displayed in the message.	

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6G200	The read of the drive signature failed (Unit-x, HDU-y)	Read of the Disk Drive-specific information failed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time with this message. ② Replace the Disk Drive displayed in the message to the Disk Drive supported by the relevant system.	– Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
I6G300	The serial number of the disk drive is illegal (Unit-x, HDU-y)	It was detected that the serial number of the inquiry data of the Disk Drive or the Disk Drive model name was an illegal value. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time with this message.	–
I6G400	The I/F type of the inserted HDU is different from the removed HDU (Unit-x, HDU-y)	The type of the drive (SAS Disk Drive/SAS7.2K Disk Drive/ Flash Drive/SATA Disk Drive) after the replacement is different from the drive before the replacement. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Replace the Disk Drive displayed in the message to the Disk Drive of the same type as the Disk Drive before the replacement.	–
I6G50x	The time required to complete the cycle copy was over the cycle time (CTG-x)	The time required for the cycle copy of TrueCopy Extended Distance in the consistency group displayed in the message exceeded the set cycle time. x : Consistency Group # (0-15)		–	–
I6G600	Auto Migration has failed	Auto Migration of the array failed.	Simple Trace	① The message to indicate the factor that Auto Migration terminated abnormally is displayed between the message “I6HC00 Auto Migration has started” indicating the start of Auto Migration of the array and this message “I6G600 Auto Migration has failed”. Check the message and perform the maintenance.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6G70x	Collecting simple trace failed (CTL-x)	The collection of the simple trace terminated abnormally. x : Control Unit # (0-1)		① 1. In case of the dual controller system, collect the simple trace from the other Control Unit.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				2. Replace the Control Unit displayed in the message. When the subsystem is in the normal mode, consult with the customer/SE and decide the opportunity to replace the Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
I6G8xy	Remote path recovered by the command from Storage Navigator Modular 2 (Remote-x, Path-y)	When the command to recover the remote path was executed from Hitachi Storage Navigator Modular 2, the remove path recovered. x : Remote # (Array ID) y : Path # (0-7)		–	–
I6G9xy	The target of remote path was not found (Port-xy)	The array subsystem of the remote site of TrueCopy remote replication or TrueCopy Extended Distance cannot be recognized due to the problem of the remote copy setting or remote path connection. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① 1. Request the customer/SE to check if [Remote Array ID] in the remote path property window of Hitachi Storage Navigator Modular 2 connected to the array subsystem which displayed the message matches the serial number of the remote subsystem of the remote copy.	–
				2. When the remote array ID and the serial number of the remote subsystem of the remote copy differ, request the customer/SE to delete the remote path consists of the ports displayed in the message and create the remote path again using the correct remote array ID.	–
				② 1. Request the customer/SE to check if the array subsystem which displayed the message is connected correctly to the remote subsystem of the remote copy.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When the array subsystems of the remote copy are not connected correctly, request the customer/SE to delete the remote path consists of the ports displayed in this message, connect the remote path correctly again, and then create the remote path again.	–
				③ 1. When the port displayed in the message is the Fibre Channel interface, request the customer/SE to check if [Local Port] and [Remote Port] in the remote path property window of Hitachi Storage Navigator Modular 2 are set correctly with the remote path consists of the ports.	–
				2. When the setting is incorrect such as [Local Port] and [Remote Port] are different from the expected port number or physical configuration, request the customer/SE to delete the remote path consists of the ports, and then create the remote path again using the correct setting values of [Local Port] and [Remote Port].	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				④ 1. When the port displayed in the message is the iSCSI interface, request the customer/SE to check if [Remote Port IP Address] and [Remote Port TCP Port Number] in the remote path property window of Hitachi Storage Navigator Modular 2 are the expected setting values by the remote path consists of the ports.	–
				2. When either value of [Remote Port IP Address] and [Remote Port TCP Port Number] is set incorrectly, request the customer/SE to delete the remote path consists of the ports, and then create the remote path again using the correct setting value.	–
				⑤ 1. When the port displayed in the message is the iSCSI Interface Board, request the customer/SE to check if [Remote Port IP Address] and [Remote Port TCP Port Number] in the remote path property window of Hitachi Storage Navigator Modular 2 match “IP address of the remote subsystem for the array subsystem which displayed this message” and “TCP port number of the remote subsystem for the array subsystem which displayed this message” by the remote path consists of the ports.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When either value of [Remote Port IP Address] and [Remote Port TCP Port Number] is set incorrectly, request the customer/SE to delete the remote path consists of the ports, and then create the remote path again using the correct setting value.	–
				⑥ 1. When the port displayed in the message is the Fibre Channel interface, request the customer/SE to check if [Local Port] and [Remote Port] in the remote path property window of Hitachi Storage Navigator Modular 2 are set in the port of the same Control Unit #.	–
				2. When [Local Port] and [Remote Path] are not set in the port of the same Control Unit #, request the customer/SE to delete the remote path consists of the ports, and then create the remote path again using the port number of the same Control Unit.	–
				⑦ 1. When the port displayed in the message is the iSCSI interface, request the customer/SE to check if [Local Port IP Address] and [Remote Port IP Address] in the remote path property window of Hitachi Storage Navigator Modular 2 are set by the IP address of the port of the same Control Unit #.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When [Local Port IP Address] and [Remote Port IP Address] are not set by the IP address of the port of the same Control Unit #, request the customer/SE to delete the remote path consists of the ports, and then create the remote path again using the IP address of the port of the same Control Unit.	–
				⑧ 1. Request the customer/SE to check if the Control Unit of the array subsystem which displayed the message and the Control Unit of the remote subsystem are connected with the same Control Unit # by the remote path consists of the ports displayed in the message.	–
				2. When the remote path between the array subsystem which displayed the message and remote subsystem is not connected to the same Control Unit #, request the customer/SE to delete the remote path consists of the ports displayed in the message, connect the remote path again so that it connects to the port of the same Control Unit # between the local site and remote site array subsystems, and create the remote path again.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				⑨ 1. When the customer is operating two-way remote copy, request the customer/SE to check if [Remote Array ID] in the remote path property window of Hitachi Storage Navigator Modular 2 matches the serial number of the array subsystem which displayed the message in the remote subsystem of the remote site viewed from the array subsystem which displayed the message.	–
				2. When the remote array ID and the serial number of the array subsystem which displayed the message differ, request the customer/SE to delete the remote path consists of the ports displayed in the message, and then create the remote path again for the remote subsystem of the remote site viewed from the array subsystem which displayed the message.	–
I6GAxy	Login resources of local array for remote copy are not enough (Port-xy)	Since the maximum number of initiators that can log in immediately is already logged in for the ports displayed in the message, the array subsystem which displayed the message cannot receive login from the remote subsystem of the remote copy. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Request the customer/SE to review the hardware configuration of the system and the system settings and reduce the host computers which log in the ports so that the remote subsystem of the remote copy can log in the ports displayed in the message.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GBxy	Path login authentication error (Port-xy)	Since the remote path was set in the array subsystem which displayed the message, the array subsystem which displayed the message logged in the remote subsystem of the remote copy. However, the CHAP authentication failed. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① 1. When it is operated with the remote copy whose remote path setting is one-way, request the customer/SE to check if [CHAP Secret] in the remote path property window of Hitachi Storage Navigator Modular 2 is unselected (disabled).	–
				2. When [CHAP Secret] is selected (set as enabled), request the customer/SE to delete the remote path, unselect (disable) the CHAP secret, and then create the remote path again.	–
				② 1. When the remote path setting was operated in the two-way remote copy, request the customer/SE to check if [CHAP Secret] is selected (enabled) in the remote path property window of Hitachi Storage Navigator modular2.	–
				2. •When [CHAP Secret] is unselected (disabled), request the customer/SE to delete the remote path, set the CHAP secret, and then create the remote path again. •When [CHAP Secret] is selected (enabled), request the customer/SE to delete the remote path consists of the ports displayed in the message, and then create the remote path again using the CHAP secret of the same value for both arrays subsystems of the local site and remote site of the remote copy.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GC00	Drive spinup was canceled (RG-x)	The spinup of the Disk Drive by the electric power saving function was not executed. x : RAID group # (0-99)	Simple Trace	① Perform the maintenance according to the message code “I6GD00 The power-on of the array unit failed (Unit-x)” displayed next to this message.	–
				② Instruct the spinup again.	–
I6GD00	The power-on of the array unit failed (Unit-x)	Turning on the power of the chassis failed. x : Unit ID # (0-59)	Simple Trace	① Perform the maintenance according to the message code output at the same time.	–
I6GE00	[Performance]Queue-full occurs often (Port-x, Connected host num.=y, Queue depth=z)	Although the number of commands that can be processed at the same time is 512 per one port of the host interface part of the array subsystem, the subsystem responded to the host computer “Queue full” more than the threshold value per unit time because the port displayed in the message continued to receive the commands more than 512 at the same time from multiple or one host computer. The I/O performance of the host computer connected to the port of the host interface part displayed in this message may deteriorate. x : Port # (0-3) y : Host connection # (0-255) z : Command multiplex number (512)	Simple Trace	① 1. When this message is displayed in the array subsystem after the customer/SE newly constructed the system or the path switching of the system operated, request the customer/SE to “review the number of hosts connected to the port displayed in this message or the number of tags per host” because the number of commands that can be processed at the same time is 512 per one port of the host interface part of the array subsystem.	–
				2. When this message is displayed after the customer/SE added a host to the array subsystem or changed the number of tags of the host, request the customer/SE to “review the number of hosts connected to the port displayed in this message or the number of tags per host” because the port of the array subsystem came to respond to the host “queue full" by having changed the setting of the system.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GF00	The error of the data transfer length was detected in the drive write (Unit-x, HDU-y)	When the Control Unit writes the data in the Disk Drive, the Control Unit received command complete from the Disk Drive before receiving a data transfer complete report. As a result, the Control Unit judged that the Disk Drive fails. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text "HDU alarm" displayed at the same time.	–
I6GG00	PIN over recovered [pool threshold] (DIR-x, Pool-y)	The DP pool recovered from the PIN over. x : Directory # (0 or 1) y : Pool # (0-63)		–	–
I6GH00	DP Pool Consumed Capacity Early Alert (Pool-x)	The DP pool consumed capacity exceeded the Early Alert threshold value. x : Pool # (0-63)	Simple Trace	① Request the customer/SE to add the DP pool capacity referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
I6GI00	DP Pool Consumed Capacity Depletion Alert (Pool-x)	The DP pool consumed capacity exceeded the Depletion Alert threshold value. x : Pool # (0-63)	Simple Trace		
I6GJ00	DP Pool Consumed Capacity Over (Pool-x)	The DP pool consumed capacity reached the upper limit, and the DP pool unused capacity was depleted. x : Pool # (0-63)	Simple Trace		
I6GK00	Over Provisioning Ratio Forewarning (Pool-x)	The DP volume capacity of the DP pool exceeded the Over Provisioning Ratio Forewarning threshold value. x : Pool # (0-63)	Simple Trace		
I6GL00	Over Provisioning Ratio Overwarning (Pool-x)	The DP volume capacity of the DP pool exceeded the Over Provisioning Ratio Overwarning threshold value. x : Pool # (0-63)	Simple Trace		
I6GP00	The staging of the management information of DP pool failed	When starting the subsystem, read of the HDP management information from the chunk for the save area failed. This changed all the ShadowImage pairs using the DP volumes to PSUE. Moreover, the DP pools were all changed to unformatted.	Simple Trace	① Check that "I6HS00 The format of all DP pools started because the read of these management data failed" is displayed in the Information Message on WEB after this message.	–
				② Perform the maintenance according to Troubleshooting "6.1.25 Recovery Method when the Subsystem went Down because the Load of the DP Management Information".	Troubleshooting "6.1.25 Recovery Method when the Subsystem went Down because the Load of the DP Management Information" (TRBL 06-1060)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GQ00	Forced parity correction stopped by too many PINs (POOL-x, LU-y)	Since the PIN number of the DP Pool displayed in the message came close to the threshold value of the subsystem, the firmware stopped the forced parity correction processing. x : Pool # (0-63) y : LU # (0-4095)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.3 [Recovery method-4] : PIN over occurred during the forced parity correction.".	Troubleshooting "6.1.3 [Recovery method-4] : PIN over occurred during the forced parity correction." (TRBL 06-0250)
I6GR00	Authentication failure of Host connector was detected (Portxy)	It was detected that the Host connector of the port displayed in the message was an unauthenticated product by authenticating the Host Connector. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Replace the Host Connector displayed in the message.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
I6GS00	The failure of Host connector was detected (Portxy)	It was detected that the Host Connector of the port displayed in the message had a failure by checking failures of the Host Connector. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace		
I6GT00	Transfer rate supported by host connector is not the same as interface board (Portxy)	The Host Connector of the incorrect transfer rate was inserted into the port displayed in the message. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Insert the Host Connector of the same transfer rate as the Interface Board with the port displayed in the message into the port displayed in the message.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
I6GU00	R/W command for the LUN is rejected due to invalid LUN process of array (LU-xxxx, yyyy)	Although a host read command or host write command was issued to the DP Volume displayed in the message, the firmware deterred the host access to the DP Volume displayed in the message because the firmware detected that "the received command is internally processed as a command for a different LU from the DP Volume to which the command was issued". x : LU # (0-4095) y : LU # (0-4095)	Simple Trace	① 1. Request the customer/SE to "refer to the system logs of the host computer and specify the DP Volume in which a failure has occurred for all the DP Volume including the DP Volume # displayed in the message". 2. Send the simple trace to the Technical Support Center.	– –

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. The Technical Support Center should check the analysis result of the system logs of the host computer and the simple trace, eliminate the logs not attributable to the DP Volume failure, and specify the DP Volume in which a failure has occurred.	–
				4. Inform the customer/SE of “the control information of the DP Volume specified by the Technical Support Center became illegal due to a failure of the subsystem, and the user data of these DP Volume cannot be recovered”.	–
				5. Check the customer/SE that “he/she has the LU setting information for the DP Volume in which a failure has occurred”. If the customer/SE does not have the setting information of the DP Volume, request him/her to “record the setting information of the DP Volume”.	–
				6. Format all the DP Volume specified in the procedure ①-3 after acquiring the permission from the customer/SE.	–
				7. Request the customer/SE to “create the file system again and restore the backup data as needed”.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GV00	Move drive (Unit-x1, HDU-y1) to slot (Unit-x2, HDU-y2) because of serial number problem	At the time of starting the subsystem, when the Disk Drive serial number is acquired from the Disk Drive, the Disk Drive whose installation slot is replaced at the previous subsystem starting time and this subsystem starting time was detected. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.27 Recovery Method when the Disk Drive Serial Number Acquired at the time of Starting the Subsystem and the Serial Number of the Configuration Information do not Match".	Troubleshooting "6.1.27 Recovery Method when the Disk Drive Serial Number Acquired at the time of Starting the Subsystem and the Serial Number of the Configuration Information do not Match" (TRBL 06-1140)
I6GW00	Internal temperature is over the threshold for Long Life Support	The temperature in the array subsystem exceeded the upper limit temperature.		① 1. Select "Settings" – "Environmental Information" in Hitachi Storage Navigator Modular 2, and check the most recent "Array Temperatures".	–
				2. When the most recent "Array Temperatures" exceeds the upper limit temperature, request the customer/SE to improve the subsystem installation environment. The upper limit temperature is displayed in the window.	–
				3. When the most recent "Array Temperatures" does not exceed the upper limit temperature, check that there is the measurement point which exceeds the upper limit temperature referring to the temperature in the subsystem in order from the most recent measurement point. Then, request the customer/SE to improve the subsystem installation environment.	–
I6GX00	Internal temperature has dropped to the threshold for Long Life Support or below	The temperature in the array subsystem decreased to the upper limit value or less.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6GYxx	The setting change of the DP Capacity Mode has failed (Code-xx)	The change of the DP capacity mode terminated abnormally. xx : Error factor code 01=The user data area is insufficient (the size of the installed Cache memory is insufficient). 02=The planned shutdown has not completed normally.		In case the error factor code is "01"	
				① 1. Contact the customer/SE that the size of the Cache memory installed in the subsystem is insufficient for changing the DP capacity mode. Then, check the size of the Cache memory required for changing the DP capacity mode referring to the "Dynamic Provisioning User's Guide", and request the customer/SE to order the addition of the required Cache memory.	"Dynamic Provisioning User's Guide"
				2. Change the DP capacity mode by Hitachi Storage Navigator Modular 2 again.	–
				3. Execute the planned shutdown of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				4. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				In case the error factor code is "02"	
				② 1. After the subsystem is started, change the DP capacity mode by Hitachi Storage Navigator Modular 2 again.	–
				2. Execute the planned shutdown of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
I6GZ00	The number of the channel port error has exceeded the threshold (PortXX)	The detection count of the channel port path failures exceeded the threshold value. x : Port # (0A-0H, 1A-1H)	Simple Trace	① Perform the maintenance referring to Troubleshooting "6.1.29 Failure Determination and Recovery Methods of Fibre Channel Port Path".	Troubleshooting "6.1.29 Failure Determination and Recovery Methods of Fibre Channel Port Path" (TRBL 06-1200)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6H000	A part of the capacity in the DP pool cannot be used causing by DP pool error	Since the DP pool capacity is smaller than the set size due to a failure which has occurred during DP pool creation, the user cannot use part of the DP pool capacity. To recover the DP pool from the failure, it is required to restart the subsystem after performing the planned shutdown.	Simple Trace	① Restart the subsystem after performing the planned shutdown. The value of the DP pool capacity is changed to the expected value by the automatic recovery function at the time of subsystem startup. Consult with the customer/SE to decide the date & time for performing the planned shutdown of the subsystem.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
I6H100	Unformatted area remains in the LU (LU-xxxx). Please contact support for assistance	Although the LU displayed in the message seems to be formatted completely from the Information Message on WEB or Hitachi Storage Navigator Modular 2, the unformatted area is actually remained in the LU due to the firmware defect before the update. x : LU # (0-4095)	Simple Trace	① Contact the Technical Support Center for the instructions.	–
I6H200	The memory reconfiguration process has failed [errcode-x]	The reconfigure memory processing failed. x : Failure factor code 1: Timeout 2: Drive is being restored 3: DMA transfer error 4: PIN enable		When errcode is "01" ① 1. The load of the host I/O was high, and the reconfigure memory processing was not completed within the specified time (ten minutes). Check with the customer/SE if an unexpected host operation is not operated.	–
				2. When it is reported from the customer/SE that the undue host operation is not performed, since it is required to perform the setting operation during the time when the load of the host I/O becomes low or during the period when the host I/O operations stops, request the customer/SE to reset the date and time of the setting operation.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. Execute reconfigure memory again.	–
				When errcode is “02”	
				② 1. Wait until the drive restoration is completed. Any of the following messages is displayed in the Information Message on WEB. • I14100 System copy completed • I15100 Data recovery completed • I15300 Data recovery partial	–
				2. Execute reconfigure memory again.	–
				When errcode is “03”	
				③ 1. Perform the maintenance according to the message which was displayed immediately before this message (Control Unit blockade/DRR failure/LA LRC error).	–
				2. Execute reconfigure memory again.	–
				When errcode is “04”	
				④ 1. To recover the failure, it is required to perform the planned shutdown or restart of the subsystem. Contact the customer/SE. Then, wait until the customer’s system is prepared.	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				2. Whether the message of “PIN is over” is displayed or not, perform the maintenance according to Troubleshooting “6.1.11 Failures occurred during the operation: Case 1 (PIN OVER)”.	Troubleshooting “6.1.11 A Failure Occurred during Operation : Case 1 (PIN over)” (TRBL 06-0690)
				3. Execute reconfigure memory again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6H300	The DP invalid flag was cleared. Please contact support for assistance.	When replacing the firmware, an invalid flag was detected in the DP management information. Therefore, the firmware cleared the flag information.		① Contact the Technical Support Center for the instructions.	–
I6H400	Start to check DP management information.	The check of the DP management information started.		–	–
I6H500	Complete to check DP management information.	The check of the DP management information was completed.		–	–
I6H600	Security command to SED was failed (Unit-x, HDU-y)	The security command for the SAS (SED) Drive failed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the dummy replacement (*1) of the blocked SAS (SED) Drive. ② If it does not recover in ①, replace the SAS (SED) Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
I6H700	HDU information setup start	The write of the Disk Drive specific information started.		–	–
I6H800	HDU information setup complete	The write of the Disk Drive specific information was completed.		–	–
I6H900	The drive signature file not found (Unit-x, HDU-y)	The Disk Drive specific information file of the Disk Drive displayed in the message was not found. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① 1. Wait until the utility mode is terminated. 2. Turn off all the power supply of the subsystem. 3. Prepare the most recent directory in which the specific information file of the Disk Drive displayed in the message is stored. 4. Turn on all the power supply of the subsystem. 5. Perform the write of the Disk Drive specific information again by resetting the utility mode.	– Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160) – Installation "1.5.1 Subsystem Power On" (INST 01-0140) –

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6HA0x	Online microprogram update is started (CTL-x)	Reboot the Control Unit displayed in the message to execute the online firmware replacement. x : Control Unit # (0-1)		–	–
I6HB0x	Online microprogram update is being executed (CTL-x)	The online firmware replacement for one Control Unit is completed. Next, execute the online firmware replacement for the Control Unit displayed in this message. x : Control Unit # (0-1)		–	–
I6HC00	Auto Migration has started	Auto Migration of the array was started.		–	–
I6HD00	Auto Migration has completed successfully	Auto Migration of the array was completed.		–	–
I6HE0x	Online microprogram update will be executed (CTL-x)	The online firmware replacement for one Control Unit is completed. Next, execute the online firmware replacement for the Control Unit displayed in this message. x : Control Unit # (0-1)		–	–
I6HF00	LU has been shrunk (LU-xxxx)	The LU was reduced. x : Internal LU # (0-4095)		–	–
I6HG00	RG Expansion started (RG-x)	The RAID group extension started. x : RAID group # (0-99)		–	–
I6HH00	RG Expansion has been completed (RG-x)	The RAID group extension terminated. x : RAID group # (0-99)		–	–
I6HJ00	RG Expansion has been stopped by user operation (RG-x)	The RAID group extension was interrupted by the user. x : RAID group # (0-99)		–	–
I6HK00	DP pool format started (DP Pool-x)	The firmware started the DP pool format. x : Pool # (0-63)		–	–
I6HL00	DP pool format has completed (DP Pool-x)	The DP pool format was completed. x : Pool # (0-63)		–	–
I6HM00	DP pool has been deleted (DP Pool-x)	The DP pool was deleted. x : Pool # (0-63)		–	–
I6HN00	DP pool initialization was executed (DP Pool-x)	The DP pool was initialized. x : Pool # (0-63)		–	–
I6HP00	DP pool has been expanded (DP Pool-x)	Since the user added the DP pool capacity, the firmware added RAID groups to the DP pool. x : Pool # (0-63)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6HQ00	LU has been created (LU-x)	The firmware created DP Volume. x : LU # (0-4095)		–	–
I6HR00	LU has been expanded (LU-x)	The firmware extended the DP Volume. x : LU # (0-4095)		–	–
I6HS00	The format of all DP pools started because the read of these management data failed	The format of all DP pools started because the read of the HDP management information failed. All the logical units in the DP pool are formatted and all the users in the DP pool are erased.	Simple Trace	① The format of the DP pool started. Therefore, format all LUs belonging to the DP pool.	System Parameter "3.3 [Procedure ③-F] Formatting LU" (SYSPR 03-0290)
I6HT00	DP Pool Optimization started [Zero Page Reclaim] (LU-x)	DP Pool optimization [Zero Page Reclaim] started. x : LU # (0-4095)		–	–
I6HU00	DP Pool Optimization has completed [Zero Page Reclaim] (LU-x)	DP Pool optimization [Zero Page Reclaim] has completed. x : LU # (0-4095)		–	–
I6HV00	DP Pool Optimization started [Rebalance] (LU-x)	DP Pool optimization [Rebalance] started. x : LU # (0-4095)		–	–
I6HW00	DP Pool Optimization has completed [Rebalance] (LU-x)	DP Pool optimization [Rebalance] has completed. x : LU # (0-4095)		–	–
I6HX00	DP Pool Optimization has been aborted by user operation (LU-x)	DP Pool optimization was cancelled by the user's instruction. x : LU # (0-4095)		–	–
I6HY00	DP Pool Optimization has been aborted due to the user operation (LU-x)	DP Pool optimization processing was unable to be continued by the user operation and the processing was stopped. x : LU # (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6HZ00	DP Pool Optimization failed (LU-x, Code-yy)	The DP pool optimization processing terminated abnormally due to the following factors (yy). x : LU # (0-4095) y : 01 = DP Pool detachment 02 = DP Pool depletion 03 = Destage time-out for DP management information	Simple Trace	① When Code-yy is “01” [DP Pool Detachment], the status of the DP Pool to which the logical unit displayed as an error belongs is not normal and the processing cannot be done. Contact the Technical Support Center.	–
				② 1. When Code-yy is “02” [DP Pool Depletion], arrange in advance the Disk Drives of the same type as the Disk Drives which configure the LU displayed in the message for the number of Disk Drives which configure the RAID group to which the LU displayed in the message belongs. Select [Group] - [Logical Unit] in the unit window of Hitachi Storage Navigator Modular 2, and refer to [RAID Level] and [Drive Type] of the LU# displayed in the message.	System Parameter “3.3 Setting of LU [Procedure ③-A] Preparing of setting LU” (SYSPR 03-0150)
				2. By using the prepared Disk Drive, create a RAID group of the same RAID level, the same number of Disk Drives, and the same number of parity groups as the RAID group to which the LU displayed in the message belongs.	System Parameter “3.2 RAID Group Setting [Procedure ②-B] Creating RAID group” (SYSPR 03-0040)
				3. Create a logical unit in the RAID group.	System Parameter “3.3 Setting of LU [Procedure ③-A] Preparing of setting LU” (SYSPR 03-0150)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				4. Request the customer/SE to add the DP Pool capacity using the logical unit created in ②-3 referring to "Dynamic Provisioning User's Guide". When adding capacity, it must be the same drive type as that of the DP pool currently used and the same RAID group.	"Dynamic Provisioning User's Guide"
				③ 1. When Code-yy is "03" [Destage time-out for DP management information], request the customer/SE to stop the operation using the DP pool.	–
				2. Request to execute the DP pool optimization again. Request the customer/SE to wait until the optimization is completed normally while stopping the operation and to restart the operation using the DP pool after it is completed normally	"Dynamic Provisioning User's Guide"
				3. Even if the DP pool optimization still terminated abnormally, stop all the operations, perform the planned shutdown of the subsystem, and then restart the subsystem.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)
				4. Request to execute the DP pool optimization again while stopping the operation using the DP pool. Request the customer/SE to restart the operation using the DP pool after it is completed normally.	"Dynamic Provisioning User's Guide"
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				5. Even if the DP pool optimization still terminated abnormally, send the simple trace to the Technical Support Center and follow the maintenance work instruction by the Technical Support Center.	–
I6J000	HDU error counter is over the threshold ［Self-Monitoring］ (Unit-x, HDU-y)	In the self media check function of the firmware, the failure counter acquired from the Disk Drive exceeded the threshold value of the drive maintenance (dynamic sparing starting factor message). x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I6J100	The SCSI Reservation for the LU has been forced to release by user (Code-xxx, LU-yyyy)	SCSI reservation for the LU specified by the user was forcibly opened by the user operation. x : OPR = The LU reserve by the Open Reserve command was opened. KEY = The Key of the Persistent Group Reserve was opened. PGR = The LU reserve by the Persistent Group Reserve command was opened. y : LU # (0-4095)		–	–
I6J200	The memory reconfiguration process has started	The reconfigure memory processing was started.		–	–
I6J300	The memory reconfiguration process has completed successfully	The reconfigure memory processing was completed.		–	–
I6J400	The memory reconfiguration process has been canceled by user	The reconfigure memory processing was interrupted by the user.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6J500	The request to spin down disk drives YYY minutes later is accepted(RG-XX)	The instruction to spin down the disk drives in the RAID group displayed in the message after the time displayed in the message passed was accepted from the Hitachi Storage Navigator Modular 2. x : RAID group # (0-99) y : I/O monitoring specified time (minute) (0-720)		–	–
I6J600	The pre-allocation of DP pool for the LU has started (LU-x)	Since the Full Capacity Mode was set to the Provisioning Attributes of the DP Volume displayed in the message, the assignment of the DP pool capacity for full capacity of the DP Volume was started. x : LU # (0-4095)		–	–
I6J700	The pre-allocation of DP pool for the LU has completed (LU-x)	The assignment of the DP pool capacity for full capacity of the DP Volume displayed in the message was completed. x : LU # (0-4095)		–	–
I6J800	The pre-allocation of DP pool for the LU has been aborted (LU-x)	Since the Full Capacity Mode was released from the Provisioning Attributes of the DP Volume displayed in the message, the assignment of the DP pool capacity which was operating in the background for full capacity of the DP Volume was suspended. x : LU # (0-4095)		–	–
I6J900	The refresh of Master Authentication Key for SED has started	The master key change was started.		–	–
I6JA00	The refresh of Master Authentication Key for SED has completed	The master key change was completed.		–	–
I6JB00	SED authentication has started	The SAS (SED) Drive authentication was started.		–	–
I6JC00	SED authentication has completed	The authentication processing was completed for all the installed and recognized SAS (SED) Drives. Moreover, the SAS (SED) Drives which failed for the authentication is blocked.		–	–
I6JF00	Data check started (LU-x)	The data check started for the LU displayed in the message. x : LU # (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6JG00	Data check ended (LU-x)	The data check was completed for the LU displayed in the message. x : LU # (0-4095)		–	–
I6JH00	Data check stopped [code-x] (LU-y)	The data check terminated forcibly because it was unable to be executed for the LU displayed in the message. x : Forced termination factor code 1 : The data check was suspended by Hitachi Storage Navigator Modular 2 during the data check. 2 : The data check of the relevant LU stopped because PIN exceeded the threshold value during the data check. 3 : The data check of the relevant LU stopped because the write-incomplete PIN exceeded the threshold value during the data check. 4 : The data check of the relevant LU stopped because a hardware error (SPC error) occurred in drive read during the data check. y : LU # (0-4095)		–	–
I6JJ00	Data check completed normally (LU-x)	By the data check, there was no LRC error block and the data was normal for the LU displayed in the message. x : LU # (0-4095)		–	–
I6JM00	Dynamic sparing start (Unit-x, HDU-y, Type-c) [z]	Dynamic sparing start. x : Unit ID # (0-59) y : Disk Drive # (0-23) c : Disk Drive model name (Character string : 0 to 8 characters) z : Error code		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6K000	Master Authentication Key for SED is not restored	It was detected at the time of the system start that the master authentication key was not restored after turning off the subsystem power and replacing both Control Units while the Data At Rest Encryption function was enabled.		① Perform the maintenance according to the message text “H0F900 Authentication key error was detected” displayed at the same time.	–
I6K100	The restoration of Master Authentication Key for SED does not succeed	It was detected at the time of the system start that the restoration of the master authentication key failed while the subsystem power was turned off.			
I6L200	Write to the P-VOL failed [SnapShot]	Write cannot be executed for the P-VOL of SnapShot.		① Perform the maintenance according to the message text “I1H600 PSUE occurred [SnapShot]” displayed at the same time.	–
I6L300	LRC error block was detected on the HDU (Unit-x, HDU-y)	By the data check, the LRC error block was detected on LBA (LBA in the message displayed at the same time) which has either Disk Drive (Disk Drive displayed in the message) of a data disk and a mirror disk. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I6L301	at H-LUN-xxxx, Host LBA-0xaaaaaaaaaaaaaaaa, Drive LBA-0xbbbbbbbbbbbbbbbb	A host LUN, a host LBA and a drive LBA of the LRC error block detected by the data check (message code “I6L300”) are indicated. x : LU # (0-4095)		–	–
I6L500	LRC error block was detected on the HDU (Unit-aa, HDU-bb) and HDU (Unit-cc, HDU-dd)	By the data check, the LRC error block was detected on the same drive LBA of the data disk and the mirror disk. a : Data disk side Unit ID # b : Data disk side Disk Drive # c : Mirror disk side Unit ID # d : Mirror disk side Disk Drive #		–	–
I6L501	at H-LUN-xxxx, Host LBA-0xeeeeeeeeeeeeeeee, Drive LBA-0xffffffffffffffff	A host LUN, a host LBA and a drive LBA of the LRC error block detected by the data check (message code “I6L500”) are indicated. x : LU # (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6L600	Data check ended abnormally caused by HDU failure (Unit-x, HDU-y)	The data check terminated because the Disk Drive in the check target was blocked while executing the data check. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
I6L700	The invalid management information of SnapShot function was detected	At the time of starting the device, it was detected that the SnapShot management information was invalid.	Simple Trace	When TrueCopy Extended Distance was used	
				① 1. Request the customer/SE to resynchronize all the pairs of TrueCopy Extended Distance changed to PSUE according to "TrueCopy Extended Distance User's Guide".	"TrueCopy Extended Distance User's Guide"
				When Copy-on-write SnapShot was used	
				② 1. Request the customer/SE to cancel all the pairs of Copy-on-write SnapShot changed to PSUE according to "Copy-on-write SnapShot User's Guide", and then, to recreate the cancelled SnapShot pairs.	"Copy-on-write SnapShot User's Guide"

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6L800	Invalid Data pool information was detected (LU-x)	At the time of the copy operation of SnapShot, TrueCopy Extended Distance or TrueCopy remote replication, it was detected that the SnapShot management information was invalid. x : LU # (0-4095)	Simple Trace	When TrueCopy Extended Distance was used	
				① 1. When SnapShot and TrueCopy Extended Distance are cascaded, and the LU displayed in the message is the P-VOL of SnapShot and the P-VOL of TrueCopy Extended Distance, sort out all the V-VOLs whose LU displayed in the message is the P-VOL. Since the SnapShot pairs of the LU displayed in the message are all cancelled in the maintenance work after this, request the customer/SE to back up the V-VOLs of SnapShot which were sorted out previously as needed.	–
				2. Request the customer/SE to cancel all the pairs of TrueCopy Extended Distance and Copy-on-write SnapShot related to the LU displayed in the message, and then, to recreate the cancelled pairs of TrueCopy Extended Distance and Copy-on-write SnapShot referring to "Copy-on-write SnapShot User's Guide" and "TrueCopy Extended Distance User's Guide".	"Copy-on-write SnapShot User's Guide" "TrueCopy Extended Distance User's Guide"
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				When TrueCopy remote replication was used	
				① 1. Since all the SnapShot pairs configured of the P-VOL of the LU displayed in the message are all cancelled in the maintenance work after this, check LU# of the SnapShot P-VOL of the LU displayed in the message.	–
				2. Sort out all the V-VOLs of the checked SnapShot P-VOL.	–
				3. Request the customer/SE to back up the V-VOLs of SnapShot which were sorted out previously as needed.	–
				4. Cancel TrueCopy remote replication related to the LU displayed in the message and all the SnapShot pairs configured of the LU of the SnapShot P-VOL which was checked in ②-1 referring to "TrueCopy remote replication User's Guide" and "Copy-on-write SnapShot User's Guide".	"TrueCopy remote replication User's Guide" "Copy-on-write SnapShot User's Guide"
				5. Request the customer/SE to recreate the cancelled pairs of TrueCopy remote replication and Copy-on-write SnapShot.	–
I6M000	Flash parameter update of iSCSI protocol chip started (CTL-x, I/F-y)	Rewrite of the Flash information of iSCSI Protocol Chip started. x : Control Unit # (0-1) y : Interface Board # (0-1)		–	–
I6M100	Flash parameter update of iSCSI protocol chip was completed (CTL-x, I/F-y)	Rewrite of the Flash information of iSCSI Protocol Chip was completed. x : Control Unit # (0-1) y : Interface Board # (0-1)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6N000	The management information of RG Expansion recovered (RG-x)	For starting the device normally, the firmware recovered the management information of the RAID group expansion which had been illegal during the device start-up. x : RAID group # (0-99)		–	–
I6N500	DP management information may be invalid, Please reboot the array with power cycle	A part of the DP pool management information may be lost due to the previously occurred power shutdown (cache non-volatilization).	Simple Trace	① 1. Perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE. When the microprogram is being replaced, complete the replacement first.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				2. Turn on the power of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				3. The pool whose information may be lost in part while executing Step ①-2 is displayed in the message “I6N600 DP management information is invalid (DP Pool-x)”. Back up the LU belonging to the displayed pool.	–
				4. Format the pool whose information displayed in the message “I6N600 DP management information is invalid (DP Pool-x)” may be lost in part.	–
				5. After completing the formatting, restore the backup data to the LU of the pool.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6N600	DP management information is invalid (DP Pool-x)	The invalid DP pool management information due to the previously occurred power shutdown (cache non-volatilization) was detected. x : Pool # (0-63)	Simple Trace	① 1. Back up the DP LU belonging to the DP pool displayed in the message.	–
				2. Reinitialize the DP pool displayed in the message.	–
				3. Display the Logical Units window from [Groups] – [Logical Units] of Hitachi Storage Navigator Modular 2.	–
				4. Select all logical units whose [DP Pool] rows in the Logical Units window match the DP pool numbers displayed in the message and the [Status] rows are displayed as “Unformat”. Click the [Format LU] button and format the unformatted DP LU.	–
				5. After completing the formatting, restore the backup data to the DP LU.	–
I6N700	DP management information check is completed	The DP pool management information check was completed when starting the subsystem.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6N8xy	Fabric connection failed to cause inaccessibility from host (Port-xy)	The frame sequence (transmission or response of FLOGI, PLOGI, RCS_ID, RFT_ID, RPT_ID, SCR and RSCN frames) issued by the array to the Fabric Switch terminated abnormally (a damage of the login sequence frame or a time-out failure has occurred between the array and the Fabric Switch). In the result, the status where the array cannot access the host has occurred. x : Control Unit # (0-1) y : Port # (A-H)	Simple Trace	① Confirm with the customer/SE whether the host can access the array via the port displayed in the message. If the host cannot access the array, follow the recovery procedure shown below.	–
				② 1. Check whether an obvious Link failure has occurred in the port displayed in the message. Specifically, when the part which has the port displayed in the message is a Control Unit, check the HALM LED and GP0 LED of the FC interface connector in accordance with Table 8.2.7 in Troubleshooting “8.2 Trouble Analysis by LED Indication of Each Part (5-3) LED Indication Pattern on Control Unit (FC Interface Connector part) (RKEM/RKES/ RKEXS/RKEXS8F). When the part which has the port displayed in the message is a FC Interface Board, check the HALM LED and GP0 LED of the FC interface connector in accordance with Table 8.2.7.1 in Troubleshooting “8.2 Trouble Analysis by LED Indication of Each Part (6) (a) FC Interface Board”.	Troubleshooting “8.2 Trouble Analysis by LED Indication of Each Part (5-3) LED Indication Pattern on Control Unit (FC Interface Connector part) (RKEM/RKES/ RKEXS/RKEXS8F)” (TRBL 08-0231) Troubleshooting “8.2 Trouble Analysis by LED Indication of Each Part (6) (a) FC Interface Board” (TRBL 08-0240)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When a Link failure is detected in Step ②-1, perform the maintenance.	–
				3. After the maintenance, confirm with the customer/SE whether the host can access the array.	–
				4. • If the host still cannot access the array, perform Step ③. • When a Link failure is not detected by the HALM LED and GP0 LED of the FC interface connector, perform the following recovery procedure.	–
				③ 1. Replace the Host Connector of the port displayed in the message. However, when the Control Unit, FC Interface Board or Host Connector is already replaced in Step ②, skip Step ③ and perform Step ④.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
				2. Check whether the host can access the array.	–
				3. If the host still cannot access the array, perform Step ④.	–
				④ 1. Before the replacement, request the customer/SE to stop all the host accesses which use the port of the part to be replaced.	–
				2. Replace the part (FC Interface Board or Control Unit) which has the port displayed in the message. During the replacement, the host cannot access any ports of the replaced part.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				3. When the replacement is completed, request the customer/SE to restart the host access. However, when the Control Unit or FC Interface Board is already replaced in Step ②, skip Step ④ and perform Step ⑤.	–
				4. Check whether the host can access the array.	–
				5. If the host still cannot access the array, perform Step ⑤.	–
				⑤ 1. Request the customer/SE to replace devices and parts (optical cables, extenders, GBIC of Fabric Switch, Fabric Switch body and others) except for the array between the array and the Fabric Switch. (Refer to "Manual of each product".) However, when the devices and parts except for the array are already replaced in Step ②, skip Step ⑤ and perform Step ⑥.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
				2. Check whether the host can access the array.	–
				3. If the host still cannot access the array, perform Step ⑥.	–
				⑥ Contact the Technical Support Center.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I6N90x	FCTL LSI failure was detected [code-yyyy] (CTL-z)	The periodic monitoring processing of FCTL LSI trouble of the Controller detected a failure. x :Read/Write type (R or W) y :FCTL register address z : Control Unit # (0-1)	Simple Trace	[In case of a dual Controller configuration] When [System Startup Attribute] of the boot option is set to “Dual Active Mode” (default)	
				① 1. Check the Control Unit number displayed in the message.	–
				2. Perform the planned shutdown of the subsystem.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				3. Replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				4. If the other Control Unit is not installed in the Basic Chassis, install both Control Units in the Basic Chassis.	
				5. Turn on the power of the subsystem.	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				[In case of a single Controller configuration] When [System Start Attribute] of the boot option is set to “Single Mode”	
				① – (The Control Unit replacement is not required because the failed part is a dual controller configuration.)	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I70100	HDU error over [02/0401 is detected at sequences other than SpinUp] (Unit-x, HDU-y)	The sense key/sense code (02/0401) response by the drive self-reboot continued exceeding the monitoring time-out period. x : Unit ID # (1-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
I70200	HDU failure is detected [02/0401 keeps happening for monitoring time] (Unit-x, HDU-y)	The detection count of the sense key/sense code (02/0401) response by the drive self-reboot exceeded the threshold value. x : Unit ID # (1-59) y : Disk Drive # (0-23)	Simple Trace		
I85000	The installation of the add unit is started (Unit-x)	The online addition of the Additional Chassis started. x : Unit ID # (1-59)		–	–
I85100	Added unit failure info. [MICROCHG]	The online addition of the Additional Chassis failed because the firmware replacement is operating.		① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Wait until the firmware replacement is completed.	–
				3. Perform the addition of the Additional Chassis again from the beginning.	–
I85200	Added unit failure info. [WARNING]	The online addition of the Additional Chassis failed because the subsystem is in the Warning status.		① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. When the subsystem is in the Warning status, recover the failure that changed the subsystem to the Warning status referring to the other output Information Message.	–
				3. Check that the WARN LED on the front of the Basic Chassis goes out.	–
				4. Perform the addition of the Additional Chassis again from the beginning.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I85300	Added unit failure info. [ENCMICROCHG]	The online addition of the Additional Chassis failed because the ENC firmware replacement is operating.		① 1. Wait until the message code "I85900 Added unit failed (Unit-x)" is displayed.	–
				2. When executing the online ENC firmware download, wait until it is completed.	–
				3. Perform the addition of the Additional Chassis again from the beginning.	–
				② 1. Wait until the message code "I85900 Added unit failed (Unit-x)" is displayed.	–
				2. When the automatic ENC firmware download is operating, wait until it is completed. If the READY LED on the front of the Basic Chassis is blinking, wait until the LED lights up.	–
				3. Execute the addition of the Additional Chassis again using Hitachi Storage Navigator Modular 2.	–
I85400	Added unit failure info. [BKDIAG]	The online addition of the Additional Chassis failed because the backend diagnosis processing is operating.	Simple Trace	① 1. Wait until the message code "I85900 Added unit failed (Unit-x)" is displayed.	–
				2. Wait for about five minutes until the backend diagnosis processing is completed.	–
				3. Perform the addition of the Additional Chassis again from the beginning.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I85500	Added unit failure info. [ADDENCNG] (Unit-x, ENC-y)	The online addition of the Additional Chassis failed because an error was detected in the ENC Unit of the Additional Chassis. x : Unit ID # (1-59) y : ENC Unit # (0-1)	Simple Trace	① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis to be added from the operating subsystem.	–
				3. Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				4. Perform the addition of the Additional Chassis again from the beginning.	–
I85600	Added unit failure info. [TIMEOUT]	The addition of the Additional Chassis failed because the online addition processing of the Additional Chassis timed out.	Simple Trace	① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis to be added from the operating subsystem.	–
				3. Perform the addition of the Additional Chassis again from the beginning.	–
				② If not recovered, collect the Simple Trace, and then contact the Technical Support Center.	Troubleshooting “ 7.3 Collecting Simple Trace” (TRBL 07-0040)
I85700	Added unit failure info. [MICROBKW]	A logical failure of the firmware occurred in the online addition processing of the Additional Chassis.	Simple Trace	① 1. Wait until the message code “I85900 Added unit failed (Unit-x)” is displayed.	–
				2. Remove the Additional Chassis to be added from the operating subsystem.	–
				3. Replace the Control Unit in which the failure occurred.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				4. Perform the addition of the Additional Chassis again from the beginning.	–
				5. If not recovered, collect the Simple Trace, and then contact the Technical Support Center.	Troubleshooting “ 7.3 Collecting Simple Trace” (TRBL 07-0040)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I85800	The installation of the add unit was completed (Unit-x)	The online addition of the Additional Chassis was completed normally. x : Unit ID # (1-59)		–	–
I85900	Added unit failed (Unit-x)	The online addition processing of the Additional Chassis terminated abnormally. x : Unit ID # (1-59)		① 1. Remove the power cables of the Additional Chasses to be added.	–
				2. Remove the Additional Chassis to be added from the existing chassis.	–
				3. The message to indicate a factor the addition failure of the Additional Chassis is displayed between the message codes “I85000 The installation of the add unit is started (Unit-x)” and “I85900 Added Unit failed (Unit-x)”. Perform the maintenance according the recovery method of that message.	–
				4. Add the Additional Chassis correctly again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I85A00	PCI configuration access error was detected [DUAL_PCI Express core, 0xyyyyzzzz] (CTL-x)	An error was detected by access to the PCI configuration register of the Dual PCI Express core of D-CTL LSI. x : Control Unit # (0-1) y : Optional code z : Optional code	Simple Trace	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time. (When the firmware of the Control Unit displayed in this message is being replaced, it is not necessary to replace the firmware of this Control Unit again after replacing the Control Unit.)	"Chapter 6. Warning Messages" (MSG 06-0000)
				② When this message is displayed after inserting the Control Unit and the displayed Control Unit is being recovered, replace the Control Unit displayed in this message.	–
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem. (When this message is displayed while executing the firmware replacement, it is not necessary to execute the firmware replacement again after replacing the Control Unit.)	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
I85B00	More than the maximum number of added units are connected	The Additional Chassis more than or equal to the connectable number was detected when the Additional Chassis was added.		① The maximum number of Additional Chassis is connected to the subsystem. Review the work instructions.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I900xx	RSP abort command P (Key [OB], Code [xy])	The response failure (Aborted Command Path) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I90100	Command time out	The time-out exceeds the threshold value in an execution of a command issued from the local DF to the remote DF.	Simple Trace		
I902xx	RSP abort command C (Key [OB], Code [xy])	The response failure (Aborted Command CTL) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace		
I903xx	RSP etc. (Key [x])	The response failure (off-range sense key) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Sense key	Simple Trace		
I904xx	RSP hard error (Key [04, Code [xy])	The response failure (Hard Error) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace		
I905xx	RSP medium error (Key [03], Code [xy])	The response failure (Medium Error) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
I906xx	RSP illegal request (Key [05], Code [xy])	The response failure (Illegal Request) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
I907xx	RSP miscompare (Key [0E], Code [xy])	The response failure (Miscompare) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace		
I908xx	RSP not ready (Key [02], Code [xy])	The response failure (Not Ready) exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : Upper two figures of a sense code y : Lower two figures of a sense code	Simple Trace		
I909xx	RSP status error [x]	The SCSI status error in a response exceeds the threshold value in an execution of a command issued from the local DF to the remote DF. x : SCSI status			
I90A00	RSP other field error	The field error in a response exceeds the threshold value in an execution of a command issued from the local DF to the remote DF.			
IA0000	Coupling started (LU-x/y)	An initial copy was started. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IA3E00	Pair cache partition(s) changed to auto selection mode	The setting of the pair Cache partition whose segment size of the Cache partition is not corresponding among the pair Cache partition set to LU was changed to the Auto setting.	Simple Trace	① 1. Check if the segment size of the pair Cache partition corresponds to the segment size of the Cache partition of the LU for the LU belongs to the Cache partition which changed the segment size.	–
				2. If it is necessary for the customer's system environment, set the segment size of the Cache partition which is not corresponding to the same value as the segment size of the Cache partition of the LU, or reset the pair Cache partition of the LU.	–
IB0000	Coupling completed (LU- x/y)	An initial copy completed normally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IB100x	SNMP function recovered (CTL-x)	The SNMP function recovered from the Warning status by the setting change. x : Control Unit # (0-1)		–	–
IB110x	SNMP error cleared by stopping SNMP Agent Support Function (CTL-x)	The Warning status of the SNMP function was cancelled because the SNMP Agent Support Function was locked or disabled. x : Control Unit # (0-1)		–	–
IB1300	SNMP configuration	It was detected that the configuration of the SNMP was illegal.	Simple Trace	① 1. Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2.	–
				2. If not recovered, check if the character string entered in CONFIG.TXT is not 256 characters or more. In the case of 256 or more characters, change to the character string of 255 characters or less.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				② 1. Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2 again.	–
				2. If not recovered yet, check if there is any error in the format of CONFIG.TXT or that the own IP address is not set to the Trap issue destination. If there is any error, correct the format or IP address.	–
				③ Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2 again.	–
IB1400	SNMP agent detected the error	The SNMP agent detected an error.	Simple Trace	① 1. Check if the character string entered in CONFIG.TXT is not 256 characters or more. In the case of 256 or more characters, change to the character string of 255 characters or less.	–
				2. Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2 again.	–
				3. If not recovered yet, check if there is any error in the format of CONFIG.TXT or that the own IP address is not set to the Trap issue destination. If there is any error, correct the format or IP address.	–
				② 1. Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2 again.	–
				2. If not recovered yet, replace the Control Unit displayed in “W3Q00x SNMP error occurred in the SNMP function”.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1500	SNMP IP address error	The SNMP agent cannot start because the IP address of the LAN port for the user is “0”.	Simple Trace	① Set the IP address of the LAN port for the user.	–
				② Disable the SNMP Agent Support Function from the Hitachi Storage Navigator Modular 2.	–
				③ Enable the SNMP Agent Support Function from the Hitachi Storage Navigator Modular 2.	–
				④ If not recovered, repeat ① again.	–
				⑤ If not recovered yet, replace the Control Unit displayed in “W3Q00x SNMP error occurred in the SNMP function”.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
IB1600	SNMP Initialization error	The initialization of the SNMP function failed	Simple Trace	① Disable the SNMP Agent Support Function from the Hitachi Storage Navigator Modular 2.	–
				② Enable the SNMP Agent Support Function from the Hitachi Storage Navigator Modular 2.	–
				③ If not recovered, repeat ① again.	–
				④ If not recovered yet, replace the Control Unit displayed in “W3Q00x SNMP error occurred in the SNMP function”.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
IB1700	SNMP RAM Device allocation error for SNMP	Securing the SNMP information to the RAM failed.	Simple Trace	① Load CONFIG.TXT from the Hitachi Storage Navigator Modular 2 again.	–
				② If not recovered yet, replace the Control Unit displayed in “W3Q00x SNMP error occurred in the SNMP function”.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1900	Remote copy failed (CTG-x)	The instruction of the pair formation or the resynchronization of TrueCopy Extended Distance was accepted, and the data transfer failed while the status of the pair was the copy (this message may be displayed even if the message “IB1B00 Remote copy started” which started the copy is not displayed in advance). x : Consistency Group # (0-15)	Simple Trace	① Execute the initial copy or the resynchronization again.	–
IB1A00	Remote resync started (LU-x/y, CTG-z)	The resynchronization of the TrueCopy Extended Distance pair started. x : Internal LU # of Primary LU (0-4095) y : Internal LU # of Secondary LU (0-4095) z : Consistency Group # (0-15)		–	–
IB1B00	Remote copy started (LU-x/y, CTG-z)	An initial copy of the TrueCopy Extended Distance pair started. x : Internal LU # of Primary LU (0-4095) y : Internal LU # of Secondary LU (0-4095) z : Consistency Group # (0-15)		–	–
IB1D00	Remote copy completed (CTG-x, y/z)	The initial copy or the resynchronization of the pair of TrueCopy Extended Distance was completed (z of the message text “CTG-x, y/z” may not be consistent with the number of the message “IB1B00 Remote copy started” which started the copy). x : Consistency Group # (0-15) y : The number of LUs that the copy was completed (1-2046) z : The number of all LUs during the copy in the consistency group (1-2046)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1E00	Remote option disable [TrueCopy Extended Distance]	Since the setting of the remote copy is inappropriate on the remote subsystem (subsystem of the communication partner), the remote copy cannot operate. The following causes are considered. 1. The license key of TrueCopy Extended Distance is locked on the remote subsystem (subsystem of the communication partner). 2. The license key of TrueCopy Extended Distance is unlocked on the remote subsystem (subsystem of the communication partner), but it is disabled. 3. The license keys of TrueCopy Extended Distance and TrueCopy Modular Distributed are unlocked on the remote subsystem (subsystem of the communication partner), but they are enabled.	Simple Trace	① When the license key of TrueCopy Extended Distance of the priced option is locked on the remote subsystem (subsystem of the communication partner), unlock the license key of TrueCopy Extended Distance. ② When the license key of TrueCopy Extended Distance of the priced option is unlocked on the remote subsystem (subsystem of the communication partner), but it is disabled, enable the license key of TrueCopy Extended Distance. ③ When the license keys of TrueCopy Extended Distance of the priced option and TrueCopy Modular Distributed are unlocked on the remote subsystem (subsystem of the communication partner), but they are enabled, set [Replication] – [Remote Path] – [Distributed Mode] of Hitachi Storage Navigator Modular 2 to [Edge] on the remote subsystem (subsystem of the communication partner) or lock the license key of TrueCopy Modular Distributed of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
IB1F00	PSUE occurred [Snapshot] (CTG-x, MU-y)	The "pairsplit-mscas" command was not completed because "pairsplit" in the pair of Copy-on-write SnapShot of the remote side subsystem could not be executed due to the internal processing waiting of the remote disk subsystem. [PSUE factor of the pair of Copy-on-write SnapShot] x : Consistency Group # (0-63) y : Mirroring # of Copy-on-write SnapShot (0-13)	Simple Trace	① Release the Copy-on-write SnapShot pair cascaded to the S-Vol of the pair of TrueCopy Extended Distance by indicating "pairsplit-mscas", and form the pair again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1G00	Pair status changed by the error (CTG-x)	The pair of TrueCopy Extended Distance changed in the abnormal status because a failure occurred. x : Consistency Group # (0-15)	Simple Trace	① When the message code "IB1M00 The change of the remote pair status failed" is displayed immediately before it, perform the maintenance according to the message.	–
IB1H00	Pair status changed by no available data pool (CTG-x)	The pair of TrueCopy Extended Distance changed in the abnormal status because the usage rate of the data pool exceeded the threshold value. x : Consistency Group # (0-15)	Simple Trace	② Remove the failure which changed it in the abnormal status for the pair of TrueCopy Extended Distance in the consistency group referring to "RAID Manager System Administrator Guide".	"RAID Manager System Administrator Guide"
				③ Reform the pair of TrueCopy Extended Distance. The method of the pair reformation differs depending on the status of the pair.	–
				④ Execute the resynchronization for the pair which changed to PSUE and PFUS. Or form the pair again after releasing it. Reform the pair after releasing it for the pair which changed to PSUS (R/W impossible).	–
IB1M00	The change of the remote pair status failed (LU-x/y, code-z)	The change of the pair status on the remote side failed in the resynchronization of TrueCopy Extended Distance. x : LU# of the pair of the local side subsystem (0-4095) y : The number of LUs of the pair of the remote side subsystem (0-4095) z : Error detailed code	Simple Trace	① Perform the resynchronization of the pair of TrueCopy Extended Distance again after recovering the error factor indicated by the error detailed code referring to the "RAID Manager System Administrator Guide".	"RAID Manager System Administrator Guide"
IB1N00	P-VOL read failed [TrueCopy]	The P-VOL became unable to be read.		① Split the TrueCopy remote replication pair. When forming the pair again, form a Copy-on-write SnapShot pair first and then form a TrueCopy remote replication pair.	–
IB1P00	SnapShot SMPL command received [TrueCopy]	Copy-on-write SnapShot received a command to split its pair.			
IB1Q00	LU access enable [SnapShot pair canceled] (LU-x)	Read/Write to P-VOL enabled. x : LU # (0-4095)	Simple Trace	–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1R00	LU access disable [SnapShot restore failed] (LU-x)	Read/Write to P-VOL disabled. x : LU # (0-4095)	Simple Trace	① Cancel all the pairs of the V-VOL in the P-VOL.	–
IB1S0x	PSUE occurred [SnapShot] (Data pool-x)	All SnapShot pairs which are using the data pool displayed in the message were changed (SnapShot) to PSUE, and the data of all V-VOLs of the pair was discarded. x : Data pool # (0-63)	Simple Trace	① To recover the SnapShot pair from PSUE, request the customer to execute the pair creation (paircreate) after executing the pair release (pairsplit-S) for the pair.	–
IB1T00	PSUE occurred [TrueCopy] (LU-xP/yS)	The local side subsystem (this subsystem) of TrueCopy remote replication changed the pair status of the P-VOL to PSUE. x : LU# (0-4095) of the P-VOL of the local side subsystem (this subsystem) y : LU# (0-4095) of the S-VOL of the remote side subsystem	Simple Trace	① 1. Recover the failure which caused PSUE referring to the "RAID Manager System Administrator Guide". 2. Perform the resynchronization for the pair which displayed the message.	"RAID Manager System Administrator Guide" –
IB1U00	PSUE occurred [TrueCopy] (LU-xS/yP)	The local side subsystem (this subsystem) of TrueCopy remote replication changed the pair status of the S-VOL to PSUE. x : LU# (0-4095) of the S-VOL of the local side subsystem (this subsystem) y : LU# (0-4095) of the P-VOL of the remote side subsystem	Simple Trace	① 1. Collect a simple trace from the remote side subsystem (subsystem of the communication partner). 2. Recover the failure which caused PSUE referring to the "RAID Manager System Administrator Guide". 3. Perform the resynchronization for the pair which displayed the message.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040) "RAID Manager System Administrator Guide" –
IB1V00	PSUE occurred [TrueCopy]	The status of the pair of TrueCopy remote replication changed the pair status of the LU to PSUE for all the LUs other than SMPL.	Simple Trace	① When the status of the path with the remote side subsystem (subsystem of the communication partner) is not normal, recover the path to normal referring to the "RAID Manager System Administrator Guide". ② When the status of the path with the remote side subsystem (subsystem of the communication partner) is normal, perform the resynchronization for the pair.	"RAID Manager System Administrator Guide" –

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB1W00	Remote option disable [TrueCopy]	Since the setting of the remote copy is inappropriate on the remote subsystem (subsystem of the communication partner), the remote copy cannot operate. The following causes are considered. 1. The license key of TrueCopy remote replication is locked on the remote subsystem (subsystem of the communication partner). 2. The license key of TrueCopy remote replication is unlocked on the remote subsystem (subsystem of the communication partner), but it is disabled. 3. The license keys of TrueCopy remote replication and TrueCopy Modular Distributed are unlocked on the remote subsystem (subsystem of the communication partner), but they are enabled.	Simple Trace	① When the license key of TrueCopy remote replication of the priced option is locked on the remote subsystem (subsystem of the communication partner), unlock the license key of TrueCopy remote replication. ② When the license key of TrueCopy remote replication of the priced option is unlocked on the remote subsystem (subsystem of the communication partner), but it is disabled, enable the license key of TrueCopy remote replication. ③ When the license keys of TrueCopy remote replication of the priced option and TrueCopy Modular Distributed are unlocked on the remote subsystem (subsystem of the communication partner), but they are enabled, set [Replication] – [Remote Path] – [Distributed Mode] of Hitachi Storage Navigator Modular 2 to [Edge] on the remote subsystem (subsystem of the communication partner) or lock the license key of TrueCopy Modular Distributed of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
IB1Y00	Audit logs were cleared	The monitoring log was initialized.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB20xy	The creation of default certificate failed (CTL-x)	The creation of the SSL default certificate file failed. x : Control Unit # (0-1) y : Error factor # (1-3)	Simple Trace	① 1. Perform the planned shutdown of the subsystem and restart it.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)
				2. If not recovered, contact the Technical Support Center.	–
IB21xy	The creation of user certificate failed (CTL-x)	The creation of the SSL user certificate file failed. x : Control Unit # (0-1) y : Error factor # (1-3)	Simple Trace	① Perform the maintenance referring to Troubleshooting "6.1.21 Recovery Method when the Creation of the SSL User Certificate File Failed".	Troubleshooting "6.1.21 Recovery Method when the Creation of the SSL User Certificate File Failed" (TRBL 06-0960)
IB220x	The error was detected in the SSL certificate (CTL-x)	The array subsystem detected that the imported SSL certificate data was illegal when the secure communication was received from the host computer application. x : Control Unit # (0-1)	Simple Trace	① 1. Request the customer/SE to start Hitachi Storage Navigator Modular 2.	–
				2. Request the customer/SE to log in Hitachi Storage Navigator Modular 2.	–
				3. Request the customer/SE to select the array subsystem in which the failure occurred and click the "Array Edit" button.	–
				4. Check whether the port to be used in the array edit window is "Normal Port" or "Secure Port".	–
				5. When the port to be used is "Secure Port", request the customer/SE to change the port to be used to "Normal Port". When the port to be used is "Normal Port", go to step 6.	–
				6. Request the customer/SE to press the [OK] button in the array edit window.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Request the customer/SE to create a user certificate and private key according to User's Guide "Changing Server Certificate and Private Key" of the subsystem.	User's Guide
				8. • When the main window of the array subsystem is displayed, request the customer/SE to update the user certificate and private key according to User's Guide "Changing Server Certificate and Private Key". • When the main window of the array subsystem is not displayed, connect to WEB. Then, referring to WEB "1.5 Displaying the Special Window", open the WEB window (http://Subsystem IP address/sslc_init/). After that, initialize the certificate in the WEB window. Request the customer/SE to execute the setting of "Port to Be Used", "Valid/Invalid of Normal Port" and the update of "Server Certificate and Private Key" as needed.	User's Guide WEB "1.5 Displaying the Special Window" (WEB 01-0070)
				9. When it is completed normally, return the port to be used to "Secure Port" in the array edit window.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IB2300	Remote array is Hub array	Although this subsystem was "Hub array subsystem" of the remote copy or "Normal array subsystem", the remote subsystem of the remote copy was also "Hub array subsystem".	Simple Trace	① 1. Specify the remote subsystem referring to "W0K0xy Path alarm (Remote-x, Path-y)" displayed with this message at the same time.	–
IB2400	Remote array is not Edge array	Although this subsystem was " Hub array subsystem" of the remote copy, the remote subsystem was not "Edge array subsystem".	Simple Trace	2. Request the customer/ SE to review the setting of the Distributed mode for this subsystem and the remote subsystem of the remote copy.	–
				3. •When the TrueCopy Modular Distributed function is used, specify the subsystem which should be originally "Edge array subsystem" on the subsystem configuration for this subsystem and the remote subsystem of the remote copy, and request the customer/ SE to change the Distributed mode of the subsystem which should be originally "Edge array subsystem" to "Edge". • When the TrueCopy Modular Distributed function is unused, specify the subsystem which should be originally "Normal array subsystem" on the system configuration for this subsystem and the remote subsystem of the remote copy, and request the customer/ SE to change the Distributed mode of the subsystem which should be originally "Normal array subsystem" to "Normal".	–
				4. Request the customer/ SE to execute the path recovery command.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IC0000	Coupling failed (LU-x/y)	An initial copy terminated abnormally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		① Define the pair of the ShadowImage in-system replication again.	–
IC1000	Coupling stopped (LU- x/y)	After performing the following, when the ShadowImage pair is in the SplitPending status, the user instructed the resynchronization (not specifying the normal mode or quick mode). Therefore, the initial copy in the background was stopped. • After specifying the quick mode and creating a ShadowImage pair • After specifying the quick mode during the initial copy operation of ShadowImage and splitting the ShadowImage pair x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
ID0000	Resync started (LU-x/y)	A resynchronization was started. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IE0000	Resync completed (LU- x/y)	A resynchronization completed normally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IF0000	Resync failed (LU-x/y)	A resynchronization terminated abnormally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		① Define the pair of the ShadowImage in-system replication again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IF1000	Resync stopped (LU-x/y)	After performing the following, when the ShadowImage pair is in the SplitPending status, the user instructed the resynchronization (not specifying the normal mode or quick mode). Therefore, the resynchronization copy in the background was stopped. • After specifying the quick mode during the resynchronization copy operation of ShadowImage and splitting the ShadowImage pair x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IG0000	PSUE occurred (LU-x/y)	The pair status was changed to PSUE when the Shadow Image function was being used. x : Primary LU # (0-4095) y : Secondary LU # (0-4095)	Simple Trace	① Make a recovery from the failure already occurred. Refer to Troubleshooting "Chapter 9 Data Collection when a Failure Occurs in Program Product (P.P.)" to collect necessary information.	Troubleshooting "Chapter 9. Data Collection when a Failure Occurs in Program Product (P.P.)" (TRBL 09-0000)
IH0000	LU unified (UNI : LU-x,M : LU-x,S : LU-y)	LUs were unified. x : LU # of the unified LU after the unification and a Main LU (0-4095) y : LU # of a Sub LU before the unification (0-4095)		–	–
IQ0000	Remote copy started (LU- x/y)	The TrueCopy remote replication/TrueCopy Extended Distance initial copy was started. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)		–	–
IR0000	Remote copy completed (LU- x/y)	The initial copy by the TrueCopy remote replication/TrueCopy Extended Distance was completed normally. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IS0000	Remote copy failed (LU- x/y)	The initial copy by the TrueCopy remote replication/TrueCopy Extended Distance terminated abnormally. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)	Simple Trace	① Define the pair of the TrueCopy remote replication/TrueCopy Extended Distance again.	–
IT0000	Remote resync started (LU- x/y)	The re-synchronization by TrueCopy remote replication/ TrueCopy Extended Distance was started. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)		–	–
IU0000	Remote resync completed (LU- x/y)	The re-synchronization by the TrueCopy remote replication/ TrueCopy Extended Distance was completed normally. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)		–	–
IV0000	Remote resync failed (LU- x/y)	The re-synchronization by the TrueCopy remote replication/ TrueCopy Extended Distance terminated abnormally. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)	Simple Trace	① Perform the re-synchronization using the TrueCopy remote replication/TrueCopy Extended Distance again.	–
IW0000	Remote PSUE occurred (LU-xP/yS)	In the local DF (this subsystem) controlled by the TrueCopy remote replication/TrueCopy Extended Distance, the pair status of the primary LU was changed to PSUE. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)	Simple Trace	① Refer to the Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)
IX0000	SRC PSUE occurred (LU-xS/yP)	In the local DF (this subsystem) controlled by the TrueCopy remote replication/TrueCopy Extended Distance, the pair status of the secondary LU was changed to PSUE. x : Number of an internal LU of the local DF (0-4095) y : Number of an internal LU of the remote DF (0-4095)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IXX000	SELF HEATRUN: Began self heatrun	The self heatrun was started.		–	–
IXX100	SELF HEATRUN: The number of defined LU is x	The defined LUN (self heatrun execution target LU) was displayed. x : LU # (0-4095)		–	–
IXX200	SELF HEATRUN: Finished self heatrun	The execution of the self heatrun was completed.		–	–
IXX300	SELF HEATRUN: Began loop test [loop (x)]	The loop test was started. x : Loop # (0-1)		–	–
IXX400	SELF HEATRUN: Finished loop test [loop (x)]	The loop test was completed. x : Loop # (0-1)		–	–
IXX500	SELF HEATRUN: Test pattern SAS-[x] started SELF HEATRUN Began the test pattern SAS-[xx]	The SELF HEATRUN system started the test of the SAS test pattern displayed in the message. x : Test pattern number		–	–
IXX600	SELF HEATRUN: Began the test pattern SATA-[x]	The execution of the test pattern for SATA was started. x : Test pattern number		–	–
IXX700	SELF HEATRUN: Began the test pattern [x]	The execution of the test pattern of the input file was started. x : Test pattern number		–	–
IXX800	SELF HEATRUN: Finished the test pattern [x]	The execution of the test pattern was completed. x : Test pattern number		–	–
IXX900	SELF HEATRUN: execution time [x:y:z]	The time required for the test was displayed. x : Execution time (hh) y : Execution time (mm) z : Execution time (ss)		–	–
IXXA00	SELF HEATRUN: HDU alarm (Unit-x, HDU-y)	The drive failure occurred. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Analyze the failure of the Disk Drive displayed in this message.	–
IXXB00	SELF HEATRUN: Online verify stopped	The online verify was stopped.		–	–
IXXC00	SELF HEATRUN: Online verify started	The online verify was started.		–	–
IXXD00	SELF HEATRUN: started the collection of statistical information (Time takes 85~300sec.)	The statistical information collection was started.		–	–
IXXE00	SELF HEATRUN: finished the collection of statistical information	The statistical information collection was completed.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IXXF00	LBA = x	LBA was detected when the drive failure occurred. x : Logical block address		–	–
IXXG00	Key/Code = x/y	The sense key/sense code was detected when the drive failure occurred. x : sense key y : sense code		–	–
IXXH00	Cmd/Len(blk) =x/y	The operation code and the number of transfer blocks were detected when the drive failure occurred. x : Operation code y : Number of transfer blocks		–	–
IXXI00	[SELF HEATRUN] Configuration error was detected (Too many units are connected)	Since the Additional Chassis whose Unit # is 13 or more are connected in the self heat-run system, a sufficient load examination may not be performed when executing the heat-run to all HDUs.		① 1. Delete the RAID Groups and the LUs created in the Additional Chassis whose Unit # is 13 or more. 2. Subtract the number of the Additional Chassis to be connected to the number of the chassis whose Unit # is 12 or less. 3. Execute the self heat-run again.	System Parameter "3.2 [Procedure ②-D]Deleting RAID group" (SYSPR 03-0090) System Parameter "3.3 [Procedure ③-D]Deleting LU" (SYSPR 03-0260) Addition/Removal/ Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000) –
IXXJ00	SELF HEATRUN Began the test pattern SSD-[xx]	The self heatrun system started the test of the Flash Drive test pattern displayed in the message. xx : Test pattern number		–	–
IXXK00	SELF HEATRUN : Unsupported HDU Product Identification (Unit-x, HDU-y)	A Disk Drive with the product ID which does not support the firmware for the LT (Lead Time) shortened version of self heatrun system was detected. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IXXL00	SELF HEATRUN:Began the test pattern SAS7K-[xx]	The self heatrun system started the test of the SAS7.2K Disk Drives test pattern displayed in the message. xx : Test pattern number		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY0000	HDU error report (Unit-x, HDU-y) [z-z]	Drive detachment because of a failure (bad ALPA) drive error report receipt. x : Unit ID # (0-59) y : Disk Drive # (0-23) z-z : Detail code		–	–
IY0600	DFPC error detect (Unit-x, HDU-y) [HDU TIME OUT]	Drive detachment because of a failure (PDEV time-out) detected by the DFPC. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0800	HDU online verify error (Unit-x, HDU-y) [04-3200]	Drive detachment owing to detection of sector exhaustion in the online verification. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0900	HDU removed (Unit-x, HDU-y)	Drive detachment because of pulling out of the drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0A00	HDU detach command receive (Unit-x, HDU-y)	Drive detachment instructed by the Mode Select command. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0B00	Dynamic sparing command receive (Unit-x, HDU-y)	Drive detachment owing to a dynamic sparing instructed by the Mode Select command. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0C00	Staging error (Unit-x, HDU-y)	Drive detachment because of a staging failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0D00	HDU intermittent error over (Unit-x, HDU-y)	Drive detachment because of the exceeded threshold value of the HDU intermittent failure count. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0E00	Dynamic sparing error (Unit-x, HDU-y) [MEDIUM]	Drive detachment because of the exceeded threshold value of media error count occurs in the dynamic sparing. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0F00	LA error [errcode:LUN] (Unit-x, HDU-y)	Drive detachment because of an LA error. (LUN) x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY0G00	LA error [errcode:LBA] (Unit-x, HDU-y)	Drive detachment because of an LA error. (LBA) x : Unit ID # (0-59) y : Disk Drive # (0-23)			
IY0H00	LRC error(Unit-x, HDU-y)	Drive detachment because of an LRC error. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0I00	Backend diagnostic error (Unit-x, HDU-y) [HDU ERROR]	Drive detachment because of a backend diagnostic error. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0J00	Backend diagnostic error (Unit-x, HDU-y) [DUAL PORT]	Drive detachment because of a dual port failure of a drive x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0K00	HDU inquiry failed (Unit-x, HDU-y)	Drive detachment because of a failure of the Inquiry command at the time of the drive start-up x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0L00	HDU read capacity failed (Unit-x, HDU-y)	Drive detachment because of a failure of the Read Capacity command at the time of the drive start-up x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0M00	Forced parity correction PIN-over (Unit-x, HDU-y)	The drive was detached owing to a PIN-over during a forced parity correction. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive. When you want to make sure of a model name and drive firmware revision of the Disk Drive, refer to Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive”.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030) Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive” (REP 01-0110)
IY0P00	HDU error outside of regulation [SMR] (Unit-x, HDU-y)	Detachment of the drive under the SMART control because of its nonstandard head x : Unit ID # (1-59) y : Disk Drive # (0-23)		① Replace the Disk Drive.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
IY0Q00	HDU error time-out [SMR] (Unit-x, HDU-y)	Detachment of a drive under the SMART control because of a time-out of a response to a command. x : Unit ID # (1-59) y : Disk Drive # (0-23)			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY0R00	HDU error status [SMR] (Unit-x, HDU-y)	Detachment of a drive under the SMART control because of an abnormal state of the heads. x : Unit ID # (1-59) y : Disk Drive # (0-23)		① Replace the Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
IY0T00	Write and compare error occurred (Unit-x, HDU-y)	The drive was detached because a comparison error occurred during the write and compare operation of the writing assurance function. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		
IY0U00	SMART sequence error over [SMR] (Unit-x, HDU-y)	Detachment of a drive under the SMART control. x : Unit ID # (1-59) y : Disk Drive # (0-23)			
IY0V00	P-VOL HDU error [ShadowImage]	A double failure of drives (a failure of a single drive in the case of RAID 0) occurred in a ShadowImage in-system replication P-VOL.		① Refer to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)" and ""6.1.10 Data Recovery does not Terminate Normally: Case 3 (Spare Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)" (TRBL 06-0650) Troubleshooting "6.1.10 Data Recovery does not Terminate Normally: Case 3 (Spare Disk Drive Failure)" (TRBL 06-0670)
IY0W00	HDU intermittent error over 3 (Unit-x, HDU-y)	The Disk Drive was blocked because the intermittent failure of the Disk Drive exceeded the threshold value. Drive blockade 3 x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Perform the maintenance according to the message text "HDU alarm" or "HDU error" displayed at the same time.	–
IY0X00	Data recovery restarted over by HDU alarm (Unit-x, HDU-y)	Because drive detachment of a RAID group of RAID 6 occurred during the correction operation of it, the correction operation was restarted from the beginning. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IY0Y00	Write sequence error was detected (Unit-x, HDU-y)	[D-DMA Transfer Failure] When the data was read from the Disk Drive, an error of the WRITE_SEQUENCE code was detected in D-PORT #04 to #07 of D-CTL LSI. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY1000	HDU write/read error (Unit-x, HDU-y)	A Disk Drive failure was detected in the Disk Drive diagnosis. x : Unit ID # (1-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to “HDU alarm” displayed after this message. • W09zab HDU alarm • W0Azab SATA HDU alarm	–
IY1100	The spin up of the disk drive failed (Unit-x, HDU-y)	The spin-up of the Disk Drive which was spin-down for the power saving failed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		
IY1200	The spin down of the disk drive failed (Unit-x, HDU-y)	The spin-down of the Disk Drive for the power saving failed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		
IY1300	The error in the inquiry data of the disk drive was detected (Unit-x, HDU-y)	It was detected that the Inquiry data of the Disk Drive displayed in the message was different before the spin-down due to the power saving and after the spin-up of this time. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		
IY1400	The error in the read capacity data of the disk drive was detected (Unit-x, HDU-y)	A sector size error was detected in the Read capacity data acquired from the Disk Drive displayed in the message. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY1500	Data recover cannot be started because of non available spare HDUs (Unit-x, HDU-y)	Since a Spare Disk Drive that can recover the data of the failed Disk Drive was not in the subsystem, the data of the failed Disk Drive was not recovered to a Spare Disk Drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Replace the Disk Drive displayed in the message.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				② If you want to recover the data of the failed Disk Drive to a Spare Disk Drive first before replacing the failed Disk Drive, set a Spare Disk Drive newly, and execute the reconstruction of the data from Hitachi Storage Navigator Modular 2. The concrete work is shown below.	–
				1. Check if a Disk Drive that can recover the data of the failed Disk Drive is in the subsystem. Specifically, check if a Disk Drive to meet the following conditions of (a), (b), (c) and (d) is in the subsystem. If there is no Disk Drive to meet the above-mentioned conditions, check if a Disk Drive to meet the conditions of (a), (b), (c) and (e) is in the subsystem. If there is no Disk Drive to meet the conditions in the subsystem, you cannot construct the data of the failed Disk Drive even though you set a Spare Disk Drive newly.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				(a) It does not belong to any RAID Groups. (b) It is not set to the Spare Disk Drive. (c) It has the same I/F as the I/F (SAS/SATA) of the failed Disk Drive. (d) Same model name as the failed Disk Drive. (e) In the RAID Group to which the failed Disk Drive belongs, it has the same capacity or more for the Disk Drive that has the smallest capacity among the Disk Drives to configure the RAID Group.	
				2. Select one Disk Drive to meet the conditions of a Spare Disk Drive, and set the Disk Drive to a Spare Disk.	–
				3. Execute the reconstruction of the data from Hitachi Storage Navigator Modular 2.	–
IY1600	LA/LRC error was detected (Unit-x, HDU-y)	The Disk Drive was blocked because the LA/LRC error exceeded the threshold value. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Perform the maintenance according to the message text “HDU alarm” or “HDU error” displayed at the same time.	–
IY1700	HDU error was detected [RSP Code Error] (Unit-x, HDU-y)	The firmware received “SCSI Response frame” whose “RESPONSE_CODE field” is an invalid value from the Disk Drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
IY1800	Installed HDD numbers are over the limit for one backend path (Unit-x, HDU-y)	You cannot use the Disk Drive displayed in the message because the Disk Drive exceeding the maximum connection number per back-end path is installed in the chassis. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Review the Disk Drive configuration of the subsystem and the specification of the back-end path, and install the Disk Drive again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY1900	Unsupported HDU was detected (Unit-x, HDU-y)	It was detected that the unsupported Disk Drive was installed. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Replace the Disk Drive displayed in the message to the Disk Drive supported by the firmware of the subsystem.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				② 1. Remove the Disk Drive displayed in the message once.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				2. Upgrade the version of the firmware of the subsystem to the version which supports this Disk Drive.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				3. Insert this Disk Drive again.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
IY1A00	Invalid HDU interface had been recognized (Unit-x, HDU-y)	An invalid type of the interface (SAS/SATA) in the Disk Drive was detected due to a temporary ENC (Expander) failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text "HDU alarm" displayed at the same time.	–
IY1B00	Data recovery does not start by memory error of SATA HDD (Unit-x, HDU-y)	The drive restoration of the RAID Group became unable to be executed because a memory failure occurred in the operating SATA drive in the degenerating RAID group. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally : Case 2 (Disk Drive Failure)" (TRBL 06-0650)
IY1C00	Installed HDD numbers are over the limit for the subsystem (Unit-x, HDU-y)	The HDU slot displayed in the message cannot be used because the number of the RKAKX or RKAKS chassis connected to the subsystem which exceeds the specified number in the subsystem specification, or the RKAKX or RKAKS Chassis is connected to the subsystem in a different way from the connection method specified in the subsystem specification.	Simple Trace	① 1. Remove the Disk Drive displayed in the message from the slot. Note that, since the use rate of the slots in the chassis displayed in the message may be low, consult with the customer/SE. If the configuration needs to be reconstructed, follow the procedure in ①-2.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Refer to Introduction "1.3 (1) (d) Restriction on RKAKX connection configuration and connection examples" (INTR 01-0095)", Introduction "1.3 (1) (e) Restriction on RKAKS connection configuration and connection examples" (INTR 01-0108)" and then investigate the connecting point of the RKAKX or RKAKS chassis which does not match the subsystem specification.	Introduction "1.3 (1) (d) Restriction on RKAKX connection configuration and connection examples" (INTR 01-0095)" Introduction "1.3 (1) (e) Restriction on RKAKS connection configuration and connection examples" (INTR 01-0108)"
				3. Refer to Introduction "1.3 (1) (d) Restriction on RKAKX connection configuration and connection examples" (INTR 01-0095)", Introduction "1.3 (1) (e) Restriction on RKAKS connection configuration and connection examples" (INTR 01-0108)" and then confirm a correct connection method for RKAKX or RKAKS Chassis.	Introduction "1.3 (1) (d) Restriction on RKAKX connection configuration and connection examples" (INTR 01-0095)" Introduction "1.3 (1) (e) Restriction on RKAKS connection configuration and connection examples" (INTR 01-0108)"
				4. Consider the procedure for reconnecting the RKAKX or RKAKS chassis correctly. Examples of the procedure are shown below. (Example a) When no RAID group and no Spare Disk are set to the subsystem; a-1. After perform planned shut down for the subsystem, turn off the subsystem power. a-2. Install the removed Disk Drive in the slot again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				a-3. Reconnect the Basic Chassis, and Additional Chassis which includes the RKAKX or RKAKS chassis correctly. a-4. Turn on the subsystem power, and start the subsystem. (Example b) When the RAID group and Spare Disk are set to all Disk Drives, and reconnecting all Additional Chassis is needed for reconnecting the RKAKX or RKAKS Chassis correctly; b-1. Back up all the subsystem settings such as RAID group, Spare Disk and priced options. b-2. Back up all the user data. b-3. Delete all the subsystem settings. b-4. After perform planned shut down for the subsystem, turn off the subsystem power. b-5. Install the removed Disk Drive in the slot again. b-6. Reconnect the Basic Chassis and Additional Chassis which includes RKAKX or RKAKS Chassis correctly. b-7. Turn on the power subsystem, and start the subsystem. b-8. Make all the subsystem settings such as RAID group, Spare Disk and priced options again. b-9. Restore all the user data.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IY1D00	System area failure was detected in the disk drive (Unit-x, HDU-y)	In the data recovery of the system disk where LU was being created, a failure was detected in the system disk whose the system area was being recovered during the system copy operation. x : Unit ID # (0) y : Disk Drive # (0-4)	Simple Trace	① When one of the following messages is displayed at the same time, follow the recovery procedure given by the message. • W09zab HDU alarm • W0Azab SATA HDU alarm	–
IY1G00	SED security function test error was detected (Unit-x, HDU-y CODE-z)	An error was detected in the SAS (SED) Disk Drives security function test. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : Error detailed factor code 01= The authentication was executed by a value other than the MSID value, and it was successful (Expectation: Authentication failure). 02= A read command was issued, and a good response was sent (Expectation: 07/20-02 response).	Simple Trace	① Replace the blocked Disk Drive.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
IY1H00	Continuous media errors were detected (Unit-x, HDU-y)	Continuous media errors of the Disk Drive were detected. x : Unit ID # (1-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to the message text “HDU alarm” displayed at the same time.	–
IY2000	Restore started (LU-x/y)	The restoration copy started. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IY2100	Restore completed (LU-x/y)	The restoration copy terminated normally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)		–	–
IY2200	Restore failed (LU-x/y)	The restoration copy terminated abnormally. x : Copy source LU # (0-4095) y : Copy destination LU # (0-4095)	Simple Trace	① Restore the data using the backup data after splitting the pair.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0000	HDU firmware download start	An updating of the drive firmware was started.		–	–
IZ0100	HDU firmware download end	An updating of the drive firmware was completed.		–	–
IZ0200	HFWD completed (Unit-x, HDU-y)	An updating of the drive firmware was completed normally. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IZ0300	HDU update failed (Unit-x, HDU-y)	The drive firmware updating or the physical format utility processing abnormally. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① 1. In case of offline replacement, turn off the main switch after a rewriting of the offline drive firmware or a process of the physical format utility is completed (after a message, “IZ0G00 HDU firmware download failed” is displayed and the READY LED (green) on the front side of the subsystem blinks slowly (once/second)).	–
				2. Remove the power cables from the Power Units of all the installed arrays.	–
				3. Install the power cables to the Power Units of the array.	–
				4. Turn on the main switch of the subsystem. (Check that the READY LED (green) on the front of the Basic Chassis lights up after four minutes usually (five minutes in case of the RKH).)	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				5. When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystem is on, maintain it according to the Information message.	–
				6. Replace a Disk Drive pointed out in the message.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Execute the offline drive firmware update of the physical format utility again. (Refer to Troubleshooting "Chapter 15. Procedure for Replacing the Offline Drive Firmware" when replacing the offline drive firmware.)	Troubleshooting "Chapter 15. Procedure for Replacing the Offline Drive Firmware" (TRBL 15-0000)
				② 1. In case of online replacement, wait until the firmware replacement is completed. ("IZ0G00 HDU firmware download failed" is displayed)	–
				2. When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystem is on, maintain it according to the Information message. When you perform planned shutdown, restart, or reboot, set the rotary switch to its original position to display the special screen before maintenance work.	WEB "1.5 Displaying the Special Window" (WEB 01-0070)
				3. Replace a Disk Drive pointed out in the message.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				4. Retry the online drive firmware update. If you set the rotary switch back to its original position from the position for displaying the special screen, set it again to the position for displaying the special screen.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000) WEB "1.5 Displaying the Special Window (1) – (3)" (WEB 01-0070)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0600	HFWD no target HDU	When an attempt is made to update the drive firmware, the target drive does not exist. However, there is no problem if this message appears when the target Disk Drive already has the latest version of firmware.		① Check whether the specified drive firmware is correct or not. If it is wrong, replace the drive firmware again by specifying the correct one.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
				② The maintenance work is not required for the drive firmware to be rewritten because either of the following conditions is met. • The corresponding Drive is not installed. • The corresponding Drive is installed and the drive firmware revision before rewritten is more than or equal to the drive firmware revision to be written for the Drive.	–
IZ0700	HFWD no redundancy [PG] (Unit-x, HDU-y)	Though the drive was the one whose firmware was to be updated, the updating was aborted because it was impossible to preserve redundancy of a parity group. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IZ0800	HFWD no redundancy [SYS] (Unit-x, HDU-y)	Though the drive was the one whose firmware was to be updated, the updating was aborted because it was impossible to preserve redundancy of the system drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–
IZ0900	HFWD no redundance [SES] (Unit-x, HDU-y)	Though the drive was the one whose firmware was to be updated, the updating was aborted because it was impossible to preserve redundancy of the SES drive. x : Unit ID # (0-59) y : Disk Drive # (0-23)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0A00	HDU update failed by CTL alarm (Unit-x, HDU-y)	The drive firmware updating or the physical format utility processing failed due to the Control Unit blockade. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① 1. In case of offline replacement, this message was displayed when replacing the offline drive firmware, make sure that "W01z0x CTL alarm" is displayed in the Information message or the ALM LED on the Control Unit is lit.	–
				2. Search a cause of the failure by referring to (recording) a statement displayed in the Information message.	–
				3. Turn off the main switch after a rewriting of the offline drive firmware or a process of the physical format utility is completed ("IZ0G00 HDU firmware download failed" is displayed and the READY LED (green) on the front side of the subsystem blinks slowly (once/second)).	–
				4. Remove the power cables from the Power Units of all the installed subsystems.	–
				5. Install the power cables to the Power Units of the array.	–
				6. Turn on the main switch of the subsystem. (Check that the READY LED (green) on the front of the Basic Chassis lights up after four minutes usually (five minutes in case of the RKH).)	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				7. When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystem is on, maintain it according to the Information message.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				8. Execute the offline drive firmware update of the physical format utility again. (Refer to Troubleshooting "Chapter 15. Procedure for Replacing the Offline Drive Firmware" when replacing the offline drive firmware.)	Troubleshooting "Chapter 15. Procedure for Replacing the Offline Drive Firmware" (TRBL 15-0000)
				② 1. In case of online replacement, wait until the firmware replacement is completed. ("IZ0G00 HDU firmware download failed" is displayed)	–
				2. Make sure that "W01z0x CTL alarm" is displayed in the Information message or the ALM LED on the Control Unit is lit.	–
				3. Recover the Control Unit according to the Information message. When you perform planned shutdown, restart, or reboot, set the rotary switch to its original position to display the special screen before maintenance work.	–
				4. Retry the online drive firmware update. If you set the rotary switch back to its original position from the position for displaying the special screen, set it again to the position for displaying the special screen.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000) WEB "1.5 Displaying the Special Window (1) – (3)" (WEB 01-0070)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0B00	HFWD CACHE destage check error	This cannot be executed because the data unwritten to the Disk Drive (unsaved information) remains in the cache.		① 1. When the LU format operates in the background, wait until all the LU formats are completed (start Hitachi Storage Navigator Modular 2, click the array device name, select [Group] – [Logical Unit] (or [RAID Group] (*1)), and wait until [Status] of the [Logical Unit] tab changes from "Normal (Quick Formatting (xx)%)" to "Normal").	–
				2. When the DP pool format operates in the background, wait until all the DP pool formats are completed (start Hitachi Storage Navigator Modular 2, click the array device name, select [Group] – [Logical Unit] (or [RAID Group] (*1)), and wait until [Status] of the [DP Pool] tab changes from "Normal (Formatting (xx)%)" to "Normal").	–
				3. When the data recovery processing (dynamic sparing, correction copy or copy back) operates, wait until the data recovery processing is completed (if "I15000 Data recovery started" is displayed in the Information Message on WEB, wait until "I15100 Data recovery completed" is displayed).	–
				To be continued to the next page.	

‡1 : When the Hitachi Storage Navigator Modular 2 is less than Ver.7.00.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				4. When the system copy operates, wait until the system copy is completed (if "I14000 System copy started" is displayed in the Information Message on WEB, wait until "I14100 System copy completed" is displayed).	–
				5. Check if there is the PIN data (start Hitachi Storage Navigator Modular 2, click the array device name, and [Total Amount] is not "0" in the PIN information of the [Settings] – [Detailed Settings] – [Start Detailed Settings] – [Maintenance] – [LU Obstacle] tabs) • When the intermediate PIN (the number of intermediate failures is not "0") or the physical PIN (the number of physical failures is not "0") exists, perform the maintenance according to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)". • When the unwritten PIN (the number of unwritten PINs is not "0") exists, perform the maintenance according to Troubleshooting "6.1.14 A Failure Occurred during Operation : Case 4 (Incomplete Writing)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690) Troubleshooting "6.1.14 A Failure Occurred during Operation : Case 4 (Incomplete Writing)" (06-0760)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Perform the regular sequential shutdown.	Installation “1.5.2 Subsystem Power Off (Sequential Shutdown)” (INST 01-0160)
				7. Power on the subsystem. (Make sure that the READY LED (green) comes on four minutes later normally.)	Installation “1.5.1 Subsystem Power On” (INST 01-0140)
				8. When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystems is on, maintain it according to the Information message.	–
				9. Execute the drive firmware update of the physical format utility again (refer to Troubleshooting “Chapter 14. Procedure for Replacing the Online Drive Firmware” when replacing the drive firmware).	Troubleshooting “Chapter 14. Procedure for Replacing the Online Drive Firmware” (TRBL 14-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0C00	HDU update failed by Loop alarm (Unit-x, HDU-y)	The drive firmware updating or the physical format utility processing failed due to the Loop failure. x : Unit ID # (0-59) y : Disk Drive # (0-23)		① Search a cause of the detachment by referring to (recording) a statement on the Fibre Channel loop detachment in the Information message.	–
				② Turn off the main switch after a rewriting of the drive firmware or a process of the physical format utility is completed (“IZ0100 HDU firmware download end” is displayed and the READY LED (green) on the front side of the subsystem blinks slowly (once/second)).	
				③ Remove the power cables from the Power Units of all the installed subsystems.	–
				④ Turn on the main switch of the subsystem. (Check that the READY LED (green) on the front of the Basic Chassis lights up after four minutes usually (five minutes in case of the RKH).)	Installation “1.5 Power On/Off Procedure” (INST 01-0130)
				⑤ When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystem is on, maintain it according to the Information message.	–
				⑥ Execute the drive firmware update of the physical format utility again (refer to Troubleshooting “Chapter 14. Procedure for Replacing the Online Drive Firmware” when replacing the drive firmware).	Troubleshooting “Chapter 14. Procedure for Replacing the Online Drive Firmware” (TRBL 14-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0D00	HFWD SENC microprogram revision check NG (Unit-x, ENC-y)	The rewriting of the drive firmware was suspended because it is the revision that the SENC firmware is not supporting the rewriting function of the SATA drive firmware. x : Unit ID # (0-59) y : SENC Unit # (0-1)	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Remove the power cables from the Power Units of all subsystem.	–
				3. Turn on the power of the subsystem again.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				4. Select [Settings] – [Advanced Settings] on the unit window on the Hitachi Storage Navigator Modular 2, and click the [Open Advanced Settings] button.	–
				5. Select the [Maintenance] on the applet window, and click the [Set] button at the lower right of the window.	–
				6. Select the [ENC Micro Update] tab on the Maintenance window.	–
				7. Click the [Change] button of the automatic download, select [Enable], and then click the [OK] button.	–
				8. Turn off the subsystem power.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				9. Turn on the subsystem power again.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				10. Check that "IXYR00 Automatic ENC microprogram download completed successfully" is displayed in the Information Message on WEB. (*1)	–
				11. Perform the drive firmware replacement again.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
IZ0E00	HDU firmware update was skipped (Unit-x, HDU-y)	The drive firmware replacement was not executed for the Disk Drive displayed in the message. It is due to any of the following reasons. • A Disk Drive which configures the parity group including the blocked Disk Drive • A Disk Drive which was blocked before executing the drive firmware replacement • A Disk Drive in the electric power saving mode • A Disk Drive which is executing a system copy or trying to execute a system copy x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.18 Recovery Method for Disk Drives which Skipped Drive Firmware Replacement".	Troubleshooting "6.1.18 Recovery Method for Disk Drives which Skipped Drive Firmware Replacement" (TRBL 06-0920)

*1 : When the READY LED (green) on the front of the Basic Chassis is blinking at high speed, it may take 30 to 50 minutes at the maximum (40 to 60 minutes at the maximum in the case of the RKH) until this message is displayed. Also, when the WARNING LED (orange) on the front of the basic chassis is blinking at high speed, it may take 30 to 85 minutes at the maximum until this message is displayed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZ0F00	HDU firmware update failed by the internal CHK1 Reset of a controller (Unit-x, HDU-y)	The drive firmware replacement stopped because CHK1 reset for internal retry was executed in the Control Unit. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① Check that "IZ0G00 HDU firmware download failed" is output in the Information message on WEB.	–
				② Replace the drive firmware again.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
IZ0G00	HDU firmware download failed	The drive firmware replacement terminated abnormally.	Simple Trace	① Perform the maintenance according to the message displayed at the same time or the dialog message.	–
IZ0H00	HDU firmware update was rejected because the prerequisite is upheld	Since any of the following processing was already operating, the drive firmware replacement was not able to start. • Online firmware replacement • Firmware replacement with the subsystem power turned on • ENC firmware replacement with the subsystem power tuned on • Automatic ENC firmware replacement • Back-end failed part isolation diagnosis	Simple Trace	① 1. When the message code "I6HA0x Online microprogram update is started" or "W3B00x Online micro-update started" is displayed and "I19000 Online micro-update completed" or "W01z0x CTL alarm" is not displayed, wait until "I19000 Online micro-update completed" or "W01z0x CTL alarm" is displayed.	–
				2. Replace the drive firmware.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
				② 1. When the message code "IZY000 ENC microprogram download start" is displayed and "IZY100 ENC microprogram download complete" or "IZYM00 ENC microprogram download error detected" is not displayed, wait until "IZY100 ENC microprogram download complete" or "IZYM00 ENC microprogram download error detected" is displayed.	–

To be continued to the next page.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Replace the drive firmware.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
				③ 1. When the message code "IZYS00 Automatic ENC microprogram download start" is displayed and "IZYR00 Automatic ENC microprogram download completed successfully" or "IZYQ Automatic ENC microprogram download failed" is not displayed, wait until "IZYR00 Automatic ENC microprogram download completed successfully" or "IZYQ Automatic ENC microprogram download failed" is displayed.	–
				2. Replace the drive firmware.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
				④ 1. When the message code "I5H3xy The search for the failure part of backend route error started" is displayed and "I5H4xy The search for the failure part of backend route error ended" is not displayed, wait until "I5H4xy The search for the failure part of backend route error ended" is displayed.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. When the ALARM LED (red) or WARNING LED (orange) on the front side of the subsystem is on, maintain it according to the Information message. When you perform planned shutdown, restart, or reboot, set the rotary switch to its original position to display the special screen before maintenance work.	WEB "1.5 Displaying the Special Window" (WEB 01-0070)
				3. Retry the online drive firmware update. If you set the rotary switch back to its original position from the position for displaying the special screen, set it again to the position for displaying the special screen.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000) WEB "1.5 Displaying the Special Window (1) – (3)" (WEB 01-0070)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZW000	ENC microprogram download info. (CHG ENCMFPLANE NG Unit-x ENC-y)	When rebooting the ENC of the Additional Chassis after completing the download of the ENC firmware, switching of the valid ENC firmware failed. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
IZW100	ENC microprogram download info. (CHG ENCMFPLANE NG CTL-x)	After completing the ENC firmware download, the ENC firmware switching failed at the time of ENC reboot. x : Control Unit # (0-1)		① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
IZW200	ENC microprogram download info. (ENC REBOOT NG Unit-x ENC-y)	The ENC reboot of the Additional Chassis after completing the ENC firmware download failed. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
IZW300	ENC microprogram download info. (ENC REBOOT NG CTL-x)	After completing the ENC firmware download, reboot of the ENC part of the Control Unit failed. x : Control Unit # (0-1)		① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZW400	ENC microprogram download info [ENC firmware validity error] (Unit-x, ENC-y, code-z)	Because the ENC firmware file transferred to the array is broken, the ENC firmware cannot be downloaded. x : Unit ID # (0-59) y : ENC Unit # (0-1) z : Code # (00-03) 00 : ENC firmware (A-side data) for 3G-Expander 01 : ENC firmware (B-side data) for 3G-Expander 02 : ENC firmware (A-side data) for 6G-Expander (3G operation mode) 03 : ENC firmware (B-side data) for 6G-Expander (3G operation mode)	Simple Trace	① 1. Remove the LAN cable connecting the service PC and the array, and then insert it.	–
				2. Check that the link LED (green) on the LAN connector lights up always. If the link LED (green) on the LAN connector does not light up always, the LAN cable may be disconnected. Replace the LAN cable.	–
				3. Delete the ENC firmware file remained on the service PC.	–
				4. Copy the ENC firmware file to the service PC again from the CD-ROM or DVD which stores the ENC firmware file to be downloaded.	–
IZW50x	ENC microprogram download info [ENC firmware validity error] (CTL-x, code-y)	Because the ENC firmware file transferred to the array is broken, the ENC firmware cannot be downloaded. x : Control Unit # (0-1) y : Code # (00-03) 00 : ENC firmware (A-side data) for 3G-Expander 01 : ENC firmware (B-side data) for 3G-Expander 02 : ENC firmware (A-side data) for 6G-Expander (3G operation mode) 03 : ENC firmware (B-side data) for 6G-Expander (3G operation mode)	Simple Trace	5. Execute the procedure of the ENC firmware download from the beginning again.	–
				6. If the phenomenon is not resolved, the ENC firmware file may be broken. Obtain a new CD-ROM/DVD again.	–
				7. Execute the procedure of the ENC firmware download from the beginning again.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZY000	ENC microprogram download start	An ENC firmware downloading was started.		–	–
IZY100	ENC microprogram download complete	An ENC firmware downloading was completed.		–	–
IZY20x	ENC#x microprogram download start	An ENC firmware downloading was started. x : ENC Unit # (0-1)		–	–
IZY40x	ENC#x microprogram download complete	An ENC firmware downloading was completed. x : ENC Unit # (0-1)		–	–
IZY500	ENC microprogram download info. (Unit-x, ENC-y)	When downloading the ENC firmware in the ENC Unit of the Additional Chassis, it was detected that the value of the data assured area was abnormal by the SES data from the ENC Unit of the Additional Chassis for the SES command. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZY800	ENC microprogram download info. (SES Unit-x, ENC-y)	When downloading the ENC firmware in the ENC Unit of the Additional Chassis, the issued SES command terminated abnormally. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. When the subsystem is in the Warning status, recover the failure that changed the subsystem to the Warning status referring to the other output Information Message.	–
				2. Check that the WARNING LED on the subsystem goes out.	–
				3. If the automatic download of the ENC firmware is operating when the message is first output, check that the automatic download of the ENC firmware is completed normally.	–
				4. If the online ENC firmware download or the offline ENC firmware download is operating when the message is first output, execute the online ENC firmware download or the offline ENC firmware download again.	–
				② 1. Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				2. If the online ENC firmware download or the offline ENC firmware download is operating when the message is first output, execute the online ENC firmware download or the offline ENC firmware download again.	–
				③ If not recovered yet, collect the Simple Trace, and then contact the Technical Support Center.	Troubleshooting “ 7.3 Collecting Simple Trace” (TRBL 07-0040)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZY900	ENC microprogram download info. (ENC microprogram Unit-x ENC-y)	When downloading the ENC firmware, a STATUS error was detected from the STATUS READ command response from the ENC Unit of the Additional Chassis. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① 1. If this failure occurs while executing the online ENC firmware download or the offline ENC firmware download, the data of the ENC firmware to be installed may be illegal. Therefore, acquired the data of the ENC firmware again.	–
				2. Execute the online ENC firmware download or the offline ENC firmware download again.	–
				② 1. The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it. If this failure occurs while operating the automatic download of the ENC firmware, do not replace the ENC Unit and execute the online firmware replacement.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZYA00	ENC microprogram download CACHE destage check error	Unsaved information remained in the cache.		① Retry after shutdown.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
IZYB00	ENC microprogram file open error [xxxxxxxxxxxx]	A display file open error occurred to the Ram disk. xxxxxxxxxxxx : Error replacement file name		① Replace the ENC firmware file in the service PC.	–
IZYB01	ENC microprogram file read error [xxxxxxxxxxxx]	A display file read error occurred to the Ram disk. xxxxxxxxxxxx : Error replacement file name			
IZYB02	ENC microprogram file size over [xxxxxxxxxxxx]	The display file size exceeds the specified value. xxxxxxxxxxxx : Error replacement file name			
IZYB03	ENC microprogram file size mismatch [xxxxxxxxxxxx]	The display file size and the designated value are mismatched. xxxxxxxxxxxx : Error replacement file name			
IZYB04	ENC microprogram read data error [xxxxxxxxxxxx]	A contents error in the file occurred. xxxxxxxxxxxx : Error replacement file name			
IZYK00	Read command response time over	50 or more read commands, which were instructed by a host and took longer than 100 ms for the drive to respond, were detected.		–	–
IZYL00	Write command response time over	50 or more write commands, which were instructed by a host and took longer than 100 ms for the drive to respond, were detected.		–	–
IZYM00	ENC microprogram download error detected (Unit-x) ENC microprogram download error detected (CTL-Unit)	A failure was detected in the download of the ENC firmware for the ENC Unit of the Basic Chassis or Additional Chassis. x : Unit ID # (1-59)		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZYQ00	Automatic ENC microprogram download failed	The automatic ENC firmware downloading terminated abnormally.	Simple Trace	① Make sure that the "IZY20x ENC#x microprogram download start" and "IZYM00 ENC microprogram download error detected (Unit-x)" were displayed before this message. ② Take recovery actions following messages displayed between the "IZY20x ENC#x microprogram download start" and "IZYM00 ENC microprogram download error detected (Unit-x)".	–
IZYR00	Automatic ENC microprogram download completed successfully	The automatic ENC firmware downloading was completed normally.		–	–
IZYS00	Automatic ENC microprogram download start	The automatic ENC firmware downloading was started. The following are conditions and this message is displayed. • After the subsystem is Ready • After recovering the Disk Drive/ENC Unit/Control Unit • After replacing the firmware • After completing the chassis addition		① Suspend the maintenance work. ② Restart the suspended maintenance work after checking that the message code "IZYR00 Automatic ENC microprogram download completed successfully" or "IZYQ00 Automatic ENC microprogram download failed" is displayed.	– –
IZYT00	ENC microprogram download info. (CTL-x)	When downloading the ENC firmware, it was detected that the value of the data guarantee area was abnormal in the SES data for the SES command. x : Control Unit # (0-1)		① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZYU00	ENC microprogram download info. (SES CTL-x)	When downloading the ENC firmware, the issued SES command terminated abnormally. x : Control Unit # (0-1)		① 1. When the subsystem is in the Warning status, recover the failure that changed the subsystem to the Warning status referring to the other output Information Message.	–
				2. Check that the WARNING LED on the subsystem goes out.	–
				3. If the automatic download of the ENC firmware is operating when the message is first output, check that the automatic download of the ENC firmware is completed normally.	–
				4. If the online ENC firmware download or the offline ENC firmware download is operating when the message is first output, execute the online ENC firmware download or the offline ENC firmware download again.	–
				② 1. Replace the ENC Unit displayed in the message.	Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
				2. If the online ENC firmware download or the offline ENC firmware download is operating when the message is first output, execute the online ENC firmware download or the offline ENC firmware download again.	–
				③ If not recovered yet, collect the Simple Trace, and then contact the Technical Support Center.	Troubleshooting “ 7.3 Collecting Simple Trace” (TRBL 07-0040)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZYV00	ENC microprogram download info. (ENC microprogram CTL-x)	When downloading the ENC firmware, a STATUS error was detected in the response of the STATUS READ command from the ENC. x : Control Unit # (0-1)		① Replace the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				② If this failure occurs while the automatic download of the ENC firmware is operating, the data of the ENC firmware stored in the system disk of the subsystem may be illegal. Therefore, stored the normal data of the ENC firmware in the subsystem disk of the subsystem by executing the online firmware replacement.	–
				③ 1. If this failure occurs while executing the online ENC firmware download or the offline ENC firmware download, the data of the ENC firmware to be installed may be illegal. Therefore, acquired the data of the ENC firmware again.	–
				2. Execute the online ENC firmware download or the offline ENC firmware download again.	–
IZYW00	ENC microprogram download info. (Revision Check NG CTL-x)	After replacing the ENC firmware, the firmware revision acquired from the ENC was different from the revision of the downloaded ENC firmware. x : Control Unit # (0-1)		① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
IZYY00	ENC microprogram download info. (GET ENCMFPLANE NG Unit-x ENC-y)	When downloading the ENC firmware and rebooting the ENC Unit of the Additional Chassis, it detected that the area different from the one updated the ENC firmware between two areas where the ENC firmware in the Flash memory of the ENC Unit is stored was enabled. x : Unit ID # (0-59) y : ENC Unit # (0-1)		① The ENC firmware displayed in the message is not updated. Replace the ENC Unit displayed in the message to update the ENC firmware. However, the back-end redundancy is lost while replacing the ENC Unit. Check that the customer has no problem on the operation, and then perform it.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
IZYZ00	ENC microprogram download info. (GET ENCMFPLANE NG CTL-x)	When the ENC was rebooted by downloading the ENC firmware, it was detected that the area different from the area which updated the ENC firmware was enabled between two areas where the ENC firmware in the Flash memory of the ENC was stored. x : Control Unit # (0-1)		① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
IZZ000	HFWD file open error [x]	A file open error was detected. x : A name of the file concerning the error		① Copy the drive firmware file from the supplied medium to the PC and replace the drive firmware again.	Troubleshooting "Chapter 14. Procedure for Replacing the Online Drive Firmware" (TRBL 14-0000)
IZZ001	HFWD file read error [x]	A file read error was detected. x : A name of the file concerning the error			
IZZ002	HFWD file size over [x]	A file size over occurred. x : A name of the file concerning the error		② If not recovered yet, call the Technical Support Center for coping with troubles.	–
IZZ003	HFWD read data over [x]	Data read from the file was illegal. x : A name of the file concerning the error			
IZZ004	HFWD file size mismatch [x]	A file size is different from the estimated one. x : A name of the file concerning the error			

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Chapter 5. Flash Detected Messages

In this Chapter, read “microprogram” of the message text as “firmware”.

Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R100yy	FPC is not detected (CTL-x)	The detection of the FPC failed. x : Control Unit# (0-1) y : Chip error code (y:z) = (01 : Path-0) (02 : Path-1) (03 : Path-0/1) (04 : Path-2) (05 : Path-0/2) (06 : Path-1/2) (07 : Path-0/1/2) (08 : Path-3) (09 : Path-0/3) (0A : Path-1/3) (0B : Path-0/1/3) (0C : Path-2/3) (0D : Path-0/2/3) (0E : Path-1/2/3) (0F : Path-0/1/2/3) (10 : Port-0A) (11 : Path-0/PortA)	Simple Trace	① When “W01z0x CTL alarm” is displayed after this message, maintain it according to the message.	“Chapter 6. Warning Messages” (MSG 06-0000)
				② In the case other than ①, replace the Control Unit displayed in the message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R1010x	The backend PCI error count exceeded the threshold (CTL-x)	The retry count of PCI HARD RESET for the backend part of the Control Unit exceeded the threshold value. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R1020x	The initialization of PCI Express failed because of the hardware error [Drv] (CTL-x)	The initial setting of the Drv-side PCI Express core of the Control Unit became an error. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R20Q00	Vector registration failure [OFFREQ]	The vector registration of the OFFREQ interrupt failed.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R20R00	Vector registration failure [DCTLERR]	The vector registration of the DCTLERR interrupt failed.	Full Dump		
R20S00	Vector registration failure [DRAMERR]	The vector registration of the DRAMERR interrupt failed.	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2280x	[DCTL]The ECC write parity error was detected (CTL-x)	D-CTL LSI detected a parity error in the ECC added part when executing write to the Cache memory. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R2290x	[DCTL]The ECC generation error was detected (CTL-x)	D-CTL LSI detected an ECC generation error in the ECC added part when executing write to the Cache memory. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R22Axy	[DCTL]The uncorrectable CACHE error was detected (CTL-x, CACHE-y)	D-CTL LSI detected an error of two bits or more when executing read to the Cache memory. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
R22B0x	[DCTL]The ECC correction failed (CTL-x)	D-CTL LSI detected discrepancy of the ECC correction when executing read to the Cache memory. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R22C0x	[DCTL]The sequencer time-out error was detected (CTL-x)	D-CTL LSI detected time-out of sequence or a parity error of time-out count. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R22D0x	[DCTL]The RCTL error was detected (CTL-x)	D-CTL LSI detected that the Cache control part did not receive a response of the RCTL (CACHE-I/F) signal which indicates a response of read. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R22E0x	[DCTL]The RCLK error was detected (CTL-x)	D-CTL LSI detected that the Cache control part did not receive a response of the RCLK (CACHE-I/F) signal which is a clock for taking read data. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R22F0x	[DCTL]The CACHE address was over the address space [MPU] (CTL-x)	D-CTL LSI detected a Cache address over error when the Cache of MPU was accessed. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R22G0x	[DCTL]The address parity error was detected [MPU] (CTL-x)	D-CTL LSI detected an address parity error in the transfer address received in the Cache control part. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R22H0x	[DCTL]The length parity error was detected (CTL-x)	D-CTL LSI detected a length parity error in the transfer word length received in the Cache control part. x : Control Unit # (0-1)	Full Dump		
R22J0x	[DCTL]The CACHE Address was over the address space [DMA] (CTL-x)	D-CTL LSI detected a Cache address over error at the Cache access of H_PORT, D_PORT, DMA #0 or MDMA. x : Control Unit # (0-1)	Full Dump		
R22K0x	[DCTL]The dummy area access error was detected (CTL-x)	D-CTL LSI detected access to the access prohibited area in the added area of the 4- byte dummy data of the Cache memory. x : Control Unit # (0-1)	Full Dump		
R22L0x	[DCTL]The address parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the address from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump		
R22M0x	[DCTL]The length parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the length from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump		
R22N0x	[DCTL]The BYTE-ENABLE parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the BYTE_EN from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump		
R22P0x	[DCTL]The write data parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the write data from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R22Q0x	[DCTL]The read data parity error was detected in the slave command bridge (CTL-x)	D-CTL LSI detected a parity error in the read data from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R22R0x	[DCTL]The BYTE-ENABLE error of the slave command bridge was detected (CTL-x)	D-CTL LSI detected an unfair pattern of BYTE_EN from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R22S0x	[DCTL]The length error was detected (CTL-x)	D-CTL LSI detected an unfair pattern of length from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R22T0x	[DCTL]The address parity error of the register interface was detected (CTL-x)	D-CTL LSI detected an error response (address parity error) of REG-I/F in the MP part. x : Control Unit # (0-1)	Full Dump		
R22R0x	[DCTL]The BYTE-ENABLE error of the slave command bridge was detected (CTL-x)	D-CTL LSI detected an unfair pattern of BYTE_EN from Cmd_BridgeS. x : Control Unit # (0-1)	Full Dump		
R22W0x	[DCTL]The read data parity error was detected in the register interface (CTL-x)	D-CTL LSI detected a parity error in the read data received in the REG-I/F part. x : Control Unit # (0-1)	Full Dump		
R22Y0x	[DCTL]The CACHE read data parity error was detected (CTL-x)	D-CTL LSI detected a parity error in the data read from the Cache memory. x : Control Unit # (0-1)	Full Dump		
R22Z0x	[DCTL]The MP sequencer error was detected (CTL-x)	D-CTL LSI detected an error in the control sequence of the MP part. x : Control Unit # (0-1)	Full Dump		
R2300x	[DCTL]The master command bridge D1 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_D1. x : Control Unit # (0-1)	Full Dump		
R2310x	[DCTL]The master command bridge D0 port error was detected (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_D0. x : Control Unit # (0-1)	Full Dump		
R2320x	[DCTL]The refresh error was detected (CTL-x)	D-CTL LSI detected an error in the refresh control part for the Cache memory. x : Control Unit # (0-1)	Full Dump		
R2330x	[DCTL]The CACHE0 error was detected (CTL-x)	D-CTL LSI detected an error in the Cache0 part. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2340x	[DCTL]The CACHE1 error was detected (CTL-x)	D-CTL LSI detected an error in the Cache1 part. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R2350x	[DCTL]The MCTL error was detected (CTL-x)	D-CTL LSI detected an error interruption of MCTL. x : Control Unit # (0-1)	Full Dump		
R2360x	[DCTL]The slave command bridge error was detected [MP] (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeS_MP. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R2370x	[DCTL]The bridge error was detected [DRV0] (CTL-x)	D-CTL LSI detected a bridge error. (D #0) x : Control Unit # (0-1)	Full Dump		
R2380x	[DCTL]The bridge error was detected [DRV1] (CTL-x)	D-CTL LSI detected a bridge error. (D #1) x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R2390x	[DCTL]The bridge error was detected [external access] (CTL-x)	D-CTL LSI detected a bridge error. (Ext_Accs) x : Control Unit # (0-1)	Full Dump		
R23A0x	[DCTL]The bridge error was detected [cross DRV0] (CTL-x)	D-CTL LSI detected a bridge error. (Cross_Drv0) x : Control Unit # (0-1)	Full Dump		
R23B0x	[DCTL]The bridge error was detected [cross DRV1] (CTL-x)	D-CTL LSI detected a bridge error. (Cross_Drv1) x : Control Unit # (0-1)	Full Dump		
R23C0x	[DCTL]The master command bridge error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeM_DUAL. x : Control Unit # (0-1)	Full Dump		
R23D0x	[DCTL]The message signal interrupt control error was detected (CTL-x)	D-CTL LSI detected an error in MSI (Message Signal Interrupt) CTL. x : Control Unit # (0-1)	Full Dump		
R23E0x	[DCTL]The PCI root complex error was detected [P_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". x : Control Unit # (0-1)	Full Dump		
R23F0x	[DCTL]The unsupported request error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23G0x	[DCTL]The PCI Express ECRC error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23H0x	[DCTL]The malformed transaction layer protocol was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R23J0x	[DCTL]The receiver overflow was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Receiver overflow”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R23K0x	[DCTL]The unexpected completion was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Unexpected completion”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
R23L0x	[DCTL]The completer abort was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Completer abort”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R23M0x	[DCTL]The completion time-out was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Completion time-out”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23N0x	[DCTL]The poisoned transaction layer protocol was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “poisoned TLP (Transaction Layer Protocol)”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23P0x	[DCTL]The data link protocol error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Data Link Protocol error”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23Q0x	[DCTL]The training error was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected “Training error”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23R0x	[DCTL]The poison error of the completion without data was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23S0x	[DCTL]The unsupported request was detected [P_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23T0x	[DCTL]The size error was detected in the completion without data [P_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R23U0x	[DCTL]The internal parity error of the configuration read was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R23V0x	[DCTL]The completion without data was discarded because of the time-out [P_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R23W0x	[DCTL]The issued completion without data was discarded [P_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23Y0x	[DCTL]The interrupt message to issue was discarded [P_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R23Z0x	[DCTL]The PCI device error was detected [internal bus error] [P_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2400x	[DCTL]The PCI device error was detected [internal memory error] [P_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2410x	[DCTL]The rollover of the replay number was detected [P_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2420x	[DCTL]The PCI root complex error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2430x	[DCTL]The unsupported request error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2440x	[DCTL]The PCI Express ECRC error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “ECRC error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R2450x	[DCTL]The malformed transaction layer protocol was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “malformed TLP (Transaction Layer Protocol)”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
R2460x	[DCTL]The receiver overflow was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Receiver overflow”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R2470x	[DCTL]The unexpected completion was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Unexpected completion”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2480x	[DCTL]The completer abort was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Completer abort”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2490x	[DCTL]The completion time-out was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Completion time-out”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24A0x	[DCTL]The poisoned transaction layer protocol was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Poisoned TLP (Transaction Layer Protocol)”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24B0x	[DCTL]The data link protocol error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Data Link Protocol error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24C0x	[DCTL]The training error was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “Training error”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24D0x	[DCTL]The poison error of the completion without data was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24E0x	[DCTL]The unsupported request was detected [D0_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R24F0x	[DCTL]The completer abort was detected in the completion status [D0_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of "completion" for the request other than write/read of the issued configuration register. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R24G0x	[DCTL]The size error was detected in the completion without data [D0_IRQ6] (CTL-x)	The status of "completion" of the issued request was "success", but D-CTL LSI received the data other than the requested data size. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R24H0x	[DCTL]The internal parity error of the configuration read was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R24J0x	[DCTL]The completion without data was discarded because of the timeout [D0_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24K0x	[DCTL]The issued completion without data was discarded [D0_IRQ6](CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24L0x	[DCTL]The interrupt message to issue was discarded [D0_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24M0x	[DCTL]The PCI device error was detected [internal bus error] [D0_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24N0x	[DCTL]The PCI device error was detected [internal memory error] [D0_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R24P0x	[DCTL]The rollover of the replay number was detected [D0_IRQ6] (CTL-x)	D-CTL LSI detected “roll-over” of REPLAY_NUMBER. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
R24Q0x	[DCTL]The PCI root complex error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI received “PCI RC (Root Complex) error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
R24R0x	[DCTL]The unsupported request error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Unsupported request error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24S0x	[DCTL]The PCI Express ECRC error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “ECRC error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R24T0x	[DCTL]The malformed transaction layer protocol was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “malformed TLP (Transaction Layer Protocol)”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24U0x	[DCTL]The receiver overflow was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Receiver overflow”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24V0x	[DCTL]The unexpected completion was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Unexpected completion”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24W0x	[DCTL]The completer abort was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Completer abort”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24Y0x	[DCTL]The completion time-out was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Completion time-out”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R24Z0x	[DCTL]The poisoned transaction layer protocol was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Poisoned TLP (Transaction Layer Protocol)”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2500x	[DCTL]The data link protocol error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Data Link Protocol error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2510x	[DCTL]The training error was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected “Training error”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2520x	[DCTL]The poison error of the completion without data was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected that the status was “success” in “completion” in the issued read request (including write/read of configuration register), but the data was “poisoned data”. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to “W01z0x CTL alarm”.	“Chapter 6. Warning Messages” (MSG 06-0000)
R2530x	[DCTL]The unsupported request was detected [D1_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of “completion” in the request other than write/read of the issued configuration register. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R2540x	[DCTL]The completer abort was detected in the completion status [D1_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of “completion” for the request other than write/read of the issued configuration register. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2550x	[DCTL]The size error was detected in the completion without data [D1_IRQ6] (CTL-x)	The status of “completion” of the issued request was “success”, but D-CTL LSI received the data other than the requested data size. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2560x	[DCTL]The internal parity error of the configuration read was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2570x	[DCTL]The completion without data was discarded because of the timeout [D1_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as “credit” was not enough, and the Cpl/CpID was discarded. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2580x	[DCTL]The issued completion without data was discarded [D1_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2590x	[DCTL]The interrupt message to issue was discarded [D1_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25A0x	[DCTL]The PCI device error was detected [internal bus error] [D1_IRQ6] (CTL-x)	D-CTL LSI detected "D-CTL internal bus error" of [PCI device error interrupt]. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R25B0x	[DCTL]The PCI device error was detected [internal memory error] [D1_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R25C0x	[DCTL]The rollover of the replay number was detected [D1_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25D0x	[DCTL]The PCI root complex error was detected [E_IRQ6] (CTL-x)	D-CTL LSI received "PCI RC (Root Complex) error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
R25E0x	[DCTL]The unsupported request error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Unsupported request error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	②Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25F0x	[DCTL]The PCI Express ECRC error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "ECRC error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
R25G0x	[DCTL]The malformed transaction layer protocol was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "malformed TLP (Transaction Layer Protocol)". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25H0x	[DCTL]The receiver overflow was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Receiver overflow". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25J0x	[DCTL]The unexpected completion was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Unexpected completion". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R25L0x	[DCTL]The completion time-out was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Completion time-out". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
R25M0x	[DCTL]The poisoned transaction layer protocol was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Poisoned TLP (Transaction Layer Protocol)". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25N0x	[DCTL]The data link protocol error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Data Link Protocol error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
R25P0x	[DCTL]The training error was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "Training error". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25Q0x	[DCTL]The poison error of the completion without data was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected that the status was "success" in "completion" in the issued read request (including write/read of configuration register), but the data was "poisoned data". [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R25R0x	[DCTL]The unsupported request was detected [E_IRQ6] (CTL-x)	D-CTL received UR (Unsupported Request) in the status of "completion" in the request other than write/read of the issued configuration register. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25S0x	[DCTL]The completer abort was detected in the completion status [E_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of "completion" for the request other than write/read of the issued configuration register. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25T0x	[DCTL]The size error was detected in the completion without data [E_IRQ6] (CTL-x)	The status of "completion" of the issued request was "success", but D-CTL LSI received the data other than the requested data size. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R25U0x	[DCTL]The internal parity error of the configuration read was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected an internal Parity error for read of the Configuration register from the PCI bus. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R25V0x	[DCTL]The completion without data was discarded because of the time-out [E_IRQ6] (CTL-x)	D-CTL LSI tried to issue Cpl (Completion)/CpID (Completion without Data) for the request from the PCI bus, but a response of the request timed out because the condition such as "credit" was not enough, and the Cpl/CpID was discarded. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				②Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25W0x	[DCTL]The issued completion without data was discarded [E_IRQ6] (CTL-x)	D-CTL LSI discarded Cpl (Completion)/CpID (Completion without Data) for the read request to the internal bus of D-CTL from the PCI bus. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
R25Y0x	[DCTL]The interrupt message to issue was discarded [E_IRQ6] (CTL-x)	When D-CTL LSI tried to issue "Assert/Deassert INTx", it could not issue it for some reasons and discarded it. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R25Z0x	[DCTL]The PCI request was discarded by the timeout [internal bus error] [E_IRQ6] (CTL-x)	D-CTL LSI could not execute the request from the internal bus of D-CTL in the set time because the condition such as Credit was not enough. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R2600x	[DCTL]The PCI request was discarded by the internal bus error [E_IRQ6] (CTL-x)	NSWC (internal but of D-CTL: I/F Slave Wrapper Control) set the error bit of TXDB (Transmit side Data Buffer) due to some errors on the internal bus of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R2610x	[DCTL]The PCI request was discarded [internal bus error] [E_IRQ6] (CTL-x)	D-CTL LSI discarded the request from the internal path of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1) (Control Unit # in which a failure occurred)	Full Dump		
R2620x	[DCTL]The PCI device error was detected [internal memory error] [E_IRQ6] (CTL-x)	D-CTL LSI detected "Internal memory error" of [PCI device error interrupt]. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R2630x	[DCTL]The internal bus error was detected [E_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
R2640x	[DCTL]The rollover of the replay number was detected [E_IRQ6] (CTL-x)	D-CTL LSI detected "roll-over" of REPLAY_NUMBER. [E_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	②Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R2650x	[DCTL]The slave dual error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in the DUAL-Slave part. x : Control Unit # (0-1)	Full Dump	③1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
R2660x	[DCTL]The CACHE error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in the Cache part. [Dual] x : Control Unit # (0-1)	Full Dump		
R2670x	[DCTL]The slave command bridge error was detected in the DUAL I/F (CTL-x)	D-CTL LSI detected an error in Cmd_BridgeS. [Dual] x : Control Unit # (0-1)	Full Dump	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R2680x	[DCTL]The completer abort was detected in the completion status [P_IRQ6] (CTL-x)	D-CTL LSI received CA (Complete Abort) in the status of "completion" for the request other than write/read of the issued configuration register. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R2690x	[DCTL]The internal bus error was detected [P_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [P_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		
R26A0x	[DCTL]The internal bus error was detected [D0_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [D0_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R26B0x	[DCTL]The internal bus error was detected [D1_PCI6] (CTL-x)	D-CTL LSI detected the internal bus error interrupt of D-CTL. [D1_PCI_E_IRQ6] x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R26C00	[DCTL]The uncorrectable CACHE error was detected (CTL-x, CACHE-y/z)	D-CTL LSI detected an ECC uncorrectable error of two bits or more from each of two Cache memories when reading the Cache memories. x : Control Unit # (0-1) y/z : Cache Unit # (0-3)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
R26D00	[DCTL]The error without the factor was detected in the DUAL I/F (CTL-x)	DUALS of D-CTL LSI detected a failure, but there was no detailed factor in the register of DUALS. x : Control Unit # (0-1)	Full Dump	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R26E00	PCI Configuration access error was detected [HostX_PCI Express core, 0xYYYYZZZZ] (CTL-x)	An error occurred in the Configuration access of the HOST PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	Full Dump	① When HOST # displayed in the message is "0", replace Interface Board #0 which is installed in the Control Unit displayed in the message, and when HOST # is "1", replace Interface Board #1.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				② If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R26F00	PCI Configuration access error was detected [DrvX_PCI Express core, 0xYYYYZZZZ] (CTL-x)	An error occurred in the Configuration access of the Drv PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R26G00	PCI Configuration access error was detected [DUAL_PCI Express core, 0xYYYYZZZZ] (CTL-x)	An error occurred in the Configuration access of the Dual PCI Express core of D-CTL LSI. x : Control Unit # (0-1) yy : Optional code zz : Optional code	Full Dump	① Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				③ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R26H00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-0)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#0) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R26J00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-1)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#1) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
R26K00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-0/2)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#0/2) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message. (However, when Cache Unit #2 is not installed, replace only Cache Unit #0.)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
R26L00	[DCTL]The uncorrectable CACHE error was detected in the DUAL I/F (CTL-x, CACHE-1/3)	D-CTL LSI detected an ECC uncorrectable error in the Cache part (CACHE#1/3) [Dual]. x : Control Unit # (0-1)	Full Dump	① Replace the Cache Unit displayed in the message. (However, when Cache Unit #3 is not installed, replace only Cache Unit #1.)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
R26M0x	[DCTL]The bridge time-out was detected by the dual core error [C_BrgM_DUAL] (CTL-x)	D-CTL LSI (Cmd_BridgeM) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	Full Dump	① Replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R26N0x	[DCTL]The bridge time-out was detected by the dual core error [external access] (CTL-x)	D-CTL LSI (Ext_Accs) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	Full Dump	② 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
R26P0x	[DCTL]The bridge time-out was detected by the dual core error [cross DRV0] (CTL-x)	D-CTL LSI (Cross_Drv0) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	Full Dump	2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R26Q0x	[DCTL]The bridge time-out was detected by the dual core error [cross DRV1] (CTL-x)	D-CTL LSI (Cross_Drv1) detected the PCI-Express transfer time-out occurred by a failure of the PCI-Express clock (DUAL core). x : Control Unit # (0-1)	Full Dump	3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
R26R0x	[DCTL]The violation of memory access from the other controller was detected (CTL-x)	The D-CTL LSI of the Control Unit detected the violation of the address of the memory access from the other Control Unit. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R26S0x	[DCTL]The violation of memory access to the other controller was detected (CTL-x)	The D-CTL LSI of the Control Unit detected the violation of the address of the memory access to the other Control Unit. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R312xy	ECC uncorrectable error (CTL-z)	The ECC uncorrectable error occurred while the hardware error interrupt was being suppressed. x : Code (1 : LDR) (2 : MNT) (3 : INS) (4 : COM) y : Detail code # z : Control Unit # (0-1)	Full Dump	① Replace all the cache memories installed in the Control Unit. ② If not recovered, replace the Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R3130x	[CSDS]The uncorrectable error on the write was detected [0xyyyyyyyy] (CTL-x)	The chipset detected DED (double error detect) in write to DRAM from chipset. x : Control Unit # (0-1)	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R3140x	[CSDS]The uncorrectable read memory error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected DED (double error detect). x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R3150x	The processor system bus error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected a Processor system bus error. x : Control Unit # (0-1)	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R3160x	The internal bus error of the chipset was detected [0xyyyyyyyy] (CTL-x)	The chipset detected an NSI (internal bus of chipset) error. x : Control Unit # (0-1)	Full Dump		
R3170x	The PCI Express device error was detected [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected an error of the PCI Express device. x : Control Unit # (0-1)	Full Dump		
R3180x	The specific PCI Express unit error was detected [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected an error other than the standard of PCI Express. x : Control Unit # (0-1)	Full Dump		
R3190x	The PCI Express error message was received [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected a PCI error of the standard of PCI Express. x : Control Unit # (0-1)	Full Dump		
R31A0x	The error was detected in the buffer unit of the chipset [0xyyyyyyyy] (CTL-x)	The chipset detected an error in the buffer unit of chipset. x : Control Unit # (0-1)	Full Dump		
R31B0x	The machine check error was detected (CTL-x)	The chipset detected a machine check error. x : Control Unit # (0-1)	Full Dump		
R31C0x	The LPC bridge error was detected [0xyyyyyyyy] (CTL-x)	The chipset detected an error in the LPC bridge. x : Control Unit # (0-1)	Full Dump		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R31D0x	[CSDS]The double error detection retry was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected retry of Double error. x : Control Unit # (0-1)	Full Dump	①When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R31E0x	[CSDS]The correctable read memory error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable read. x : Control Unit # (0-1)	Full Dump	②When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
R31F0x	The correctable PCIe device error was over the threshold [chipset] [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error of the PCI Express device. x : Control Unit # (0-1)	Full Dump	③When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
R3200x	The specific correctable PCIe unit error was over the threshold [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error other than the PCI Express standard. x : Control Unit # (0-1)	Full Dump		
R3210x	The correctable PCI Express error message was received [0xyyyyyyyy] (CTL-x)	The chipset detected a correctable error of the PCI Express standard. x : Control Unit # (0-1)	Full Dump		
R322xy	CACHE correctable error was over the threshold [CRECT] (CTL-x, CACHE-y)	A Cache correctable error exceeded the threshold value. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Full Dump	①Replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				②If not recovered, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
R40Z0x	The initialization of PCI Express failed because of the hardware error [DUAL] (CTL-x)	The initial setting of the DUAL PCI-Express core became an error. x : Control Unit # (0-1) (Control Unit # that detected a failure)	Full Dump	①Perform the maintenance according to the message code "W01z0x CTL alarm" displayed at the same time.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	–
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53200	A bad LBA was detected in START80A.DAT file	It was detected that write LBA of the upload file of the firmware was illegal.	Simple Trace	① 1. Acquire the firmware from CD-R again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
R53300	A bad LBA was detected in START80X.DAT file	It was detected that write LBA of the upload file of the firmware was illegal.	Simple Trace		
R53400	The model check error was detected in the upload file	When the chassis type written in the file of the read firmware was checked, an error was detected.	Simple Trace	① 1. Acquire the file of the firmware again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
R53500	D-SPC firmware download was started	The firmware download of SAS CTL (D-SPC) started.		–	–
R53600	D-SPC firmware download was completed successfully	The firmware download of SAS CTL (D-SPC) was completed normally.		–	–
R537xy	D-SPC firmware download was failed	The firmware download of SAS CTL (D-SPC) failed. x : Any code	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53800	Down grade install NG [TrueCopy Extended Distance feature is unlocked]	Since the priced option of TrueCopy Extended Distance is unlocked, the update installation for the version downgrade to the firmware that does not support the TrueCopy Extended Distance function cannot be executed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Delete all pairs and paths created by the TrueCopy Extended Distance function referring to the "TrueCopy Extended Distance User's Guide".	"TrueCopy Extended Distance User's Guide"
				4. Lock the license key of TrueCopy Extended Distance of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Execute the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R5390x	D-SPC detected the firmware error (CTL-x)	D-SPC (Drive-side SAS Protocol Chip) detected a firmware defect. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53A00	Down grade install NG [This firmware cannot be uploaded for the controller]	The firmware to be installed is not supporting the Control Unit installed in the subsystem.	Simple Trace	① Install the firmware supporting the Control Unit installed in the subsystem.	–
R53Cxy	The creation of default certificate failed (CTL-x)	The creation of the SSL default certificate file failed. x : Control Unit # (0-1) y : Error factor # (1-3)	Simple Trace	① 1. Perform the planned shutdown of the subsystem and restart it.	Installation "1.5 Power On/Off Procedure" (INST 01-0130)
				2. If not recovered, contact the Technical Support Center.	–
R53D00	Unsupported controller was detected by the firmware which had tried to be installed	The unsupported Control Unit was detected by the firmware installed in the subsystem.	Simple Trace	① Check if the firmware is the correct version. If the firmware version is incorrect, install the correct firmware. When the firmware is correct, replace the Control Unit displayed in the message to the Control Unit supported by the firmware to be installed in the subsystem, and then install the firmware again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
R53E00	Down grade install NG [RG Expansion feature is used]	You cannot execute the version downgrade to the firmware which does not support the RAID Group expansion function because the RAID Group expansion function is running or the specific operation of the RAID Group expansion function was performed.	Simple Trace	① Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② Check that the subsystem becomes Ready.	–
				③ Select [Group] – [RAID Group] of Hitachi Storage Navigator Modular 2, and check whether the RAID Group expansion processing is "Expanding (x)" or "Waiting expansion (n) (x)" referring to [Status] of all RAID Groups.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				④ 1. When "Expanding (x)" or "Waiting expansion (n) (x)" is displayed in [Status] of the RAID Group in one or more RAID Groups, wait until "Normal" is displayed in [Status] of all the RAID Groups. In this case, it takes time to complete the RAID Group expansion processing. When [Status] of all the RAID Groups changes to "Normal", go to Step ⑤.	"ShadowImage in-system replication User's Guide"
				2. When "Normal" is displayed in [Status] of all the RAID Groups, you cannot execute the version downgrade to the firmware which does not support the RAID Group expansion function because the specific operation of the RAID Group expansion function is performed. Execute the update installation of the firmware of the version which supports the RAID Group expansion function.	–
				⑤ Change it to the maintenance mode after completing all the RAID Group expansion processing.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				⑥ Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				⑦ If this message is displayed again, the version downgrade to the firmware which does not support the RAID Group expansion function because the specific operation of the RAID Group expansion function is performed. Perform the update installation of the firmware which supports the RAID Group expansion function.	
R53F00	Down grade install NG [ShadowImage Quick mode feature executing]	You cannot execute the version downgrade to the firmware which does not support the ShadowImage Quick mode function because a ShadowImage pair whose pair status is PSUS(SP) or PAIR (IS) exists in the array subsystem using the ShadowImage Quick mode function.	Simple Trace	① Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				② Check that the subsystem becomes Ready.	–
				③ 1. When a ShadowImage pair whose pair status is PAIR (IS) exists in the array subsystem, refer to "ShadowImage in-system replication User's Guide", split the pair, and wait until the pair status changes to PSUS.	"ShadowImage in-system replication User's Guide"
				2. When a ShadowImage pair whose pair status is PSUS (SP) exists in the array subsystem, wait until the pair status changes to PSUS.	–
				④ Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				⑤ Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53G00	The error of Initial setup has been detected because RKAKX is connected.	The RKAKX is connected to Unit #0. Therefore, you cannot execute Initial Setup of the firmware which does not support the RKAKX.	Simple Trace	① Execute Initial Setup with the firmware which supports the RKAKX. Or, execute the Initial Setup after changing the connection configuration of the subsystem so that the RKA is connected as Unit #0.	WEB "3.3.1 (3) Installation Procedure" (WEB 03-0350)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53H00	Down grade install NG [RKAKX is connected.]	You cannot execute the update installation of the version downgrade to the firmware which does not support the RKAKX because the RKAKX is connected.	Simple Trace	① Perform the update installation of the firmware which supports the RKAKX.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② 1. Removing the RKAKX.	Addition/Removal/Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
				2. Perform the update installation of the firmware whose version is to be downgraded.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53J00	Down grade install NG [the LU Format is being executed on the S-VOL.]	The version downgrade installation of the firmware cannot be executed because Format is in execution for the S-VOL of ShadowImage.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to [Replication] – [Local Replication] of the unit window of Hitachi Storage Navigator Modular 2, and record all LU #s of the secondary volume.	–
				5. Refer to [Group] – [RAID Group] – [Logical Unit] tab of the unit window of Hitachi Storage Navigator Modular 2, and check that "Status" of at least one or more logical units is "Formatting (Normal (Quick Formatting (**%)))" for the logical units of the secondary volume which were checked before.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Wait until the formatting of the logical units which were checked before is completed ("Status" of the logical unit changes to Normal).	–
				7. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				8. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53L00	Down grade install NG [The Distributed mode of TC-Distributed Feature is "Hub"]	Since the Distributed mode of the TrueCopy Modular Distributed function is "Hub", the version downgrade installation to the firmware not supporting "Hub" of the Distributed mode cannot be executed.	Simple Trace	① Check if the firmware to be installed is the expected revision. When the firmware whose installation failed is not the expected revision, order the firmware of the expected revision, and install it again from the beginning.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				② 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Set the Distributed mode to "Edge" referring to the "TrueCopy remote Distributed User's Guide".	"TrueCopy remote Distributed User's Guide"
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53M00	Down grade install NG [Dynamic Provisioning feature is unlocked]	Since the priced option of Dynamic Provisioning is unlocked, you cannot perform the update installation for downgrading the version to the firmware not supporting the Dynamic Provisioning function.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Delete the DP volumes and DP pools created by the Dynamic Provisioning function referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
				4. Lock the license key of Dynamic Provisioning of the priced option.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53N00	Down grade install NG [RADIUS server is used]	Since the user authentication is set to "RADIUS" in at least one account of the account authentication function, you cannot downgrade the version to the firmware not supporting the RADIUS server.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Display the registered account list and delete the accounts whose user authentication is "RADIUS" referring to the "Account Authentication User's Guide".	"Account Authentication User's Guide"
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53Q00	Down grade install NG [The number of registered accounts is too much]	Since 21 or more public accounts are registered in the account authentication function, you cannot downgrade the version to the firmware not supporting the registration of 21 or more public accounts.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Display the registered account list and delete the accounts whose account type is "Public" to reduce the number of the registered accounts to 20 or less referring to the "Account Authentication User's Guide".	"Account Authentication User's Guide"
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53R00	Down grade install NG [Command Devices are created with DP Volume]	Since the command device using the DP Volume exists, the version downgrade to the firmware which is not supporting the command device of the DP Volume cannot be executed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Delete the command device referring to the "Hitachi Storage Navigator Modular 2 User's Guide".	"Hitachi Storage Navigator Modular 2 User's Guide"
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53S00	Down grade install NG [DM-LU is created with DP Volume]	Since the DM-LU using the DP Volume exists, the version downgrade to the firmware which is not supporting the DM-LU of the DP Volume cannot be executed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Examine the unlocked licenses referring to [Settings] – [Licenses] of the unit window of Hitachi Storage Navigator Modular 2.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. Among the unlocked licenses, cancel all the pairs referring to the "User's Guide" (*1) of the licenses concerned.	"User's Guide"
				6. Delete the Differential Management LU referring to the "Hitachi Storage Navigator Modular 2 User's Guide".	"Hitachi Storage Navigator Modular 2 User's Guide"
				7. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				8. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

*1 : License name and manual name.

No.	License name	Manual name
1	SHADOWIMAGE	ShadowImage in-system replication User's Guide
2	TRUECOPY	TrueCopy remote replication User's Guide
3	SNAPSHOT	Copy-on-write SnapShot User's Guide
4	TC-EXTENDED	TrueCopy Extended Distance User's Guide
5	TC-DISTRIBUTED	TrueCopy Modular Distributed User's Guide

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53U00	Down grade install NG [Too many HDDs are installed for new firmware]	The version cannot be downgraded since the number of installable drives per back-end path is not supported by the firmware to be installed.	Simple Trace	① When using the number of Disk Drives currently connected continuously, perform the update installation of the firmware supporting the connection of 61 or more Disk Drives per back-end path.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				② 1. When downgrading the version of the firmware, click [Go to Normal Mode] of the menu frame on WEB and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Remove the RKAKX or RKAK until the number of installable Disk Drives per back-end path becomes 60 or less referring to Addition/ Removal/Relocation "2.4.3 Removing a Disk Drive".	Addition/Removal/Relocation "2.4.3 Removing a Disk Drive" (ADD 02-0220)
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53V00	Down grade install NG [Volume Migration pair of DP volume exists]	Since the Volume Migration pair using the DP volume exists, the version cannot be downgraded to the firmware not supporting Volume Migration of the DP volume.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Check the migration status referring to [Settings] – [Detail Settings] – [Start Detail Settings] button – [Volume Migration] – [Pair] in the unit window of Hitachi Storage Navigator Modular 2.	"Modular Volume Migration User's Guide"
				5. When a pair whose pair status is "Copying" or "Waiting" exists, wait until the pair status changes to "Completed". If the pair status changes to "Error", request the customer/SE for the maintenance.	–
				6. When a pair whose pair status is "Completed" exists, perform the pair release for the pair concerned referring to the "Modular Volume Migration User's Guide"	"Modular Volume Migration User's Guide"
				7. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				8. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53W00	Down grade install NG [Dynamic Provisioning Optimization function is executing]	Since the optimization of Dynamic Provisioning is in execution, the version cannot be downgraded to the firmware not supporting the optimization function of Dynamic Provisioning.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Request the customer/SE to determine whether to wait until the optimization of Dynamic Provisioning is completed or to suspend the optimization of Dynamic Provisioning. •When waiting until the optimization of Dynamic Provisioning is completed, request the customer/SE to check the completion of the optimization and contact the service personnel after completing the optimization. • When suspending the optimization of Dynamic Provisioning, request the customer/SE to suspend the optimization referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53X00	Down grade install NG [SSD is installed]	Since the SSD (Solid State Drive: Flash Drive) is installed, the version cannot be downgraded to the firmware not supporting the SSD.	Simple Trace	① Order the firmware supporting the SSD (Solid State Drive: Flash Drive) and install the firmware again.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R53Y00	Down grade install NG [Too many RKAKXs are connected for new firmware]	The version cannot be downgraded in the firmware to be installed because the number of RKAKX not supported is installed in the subsystem.	Simple Trace	① When using the currently connected RKAKX continuously, perform the update installation of the firmware supporting the connection of two or more RKAKXs.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				② 1. When downgrading the version of the firmware, click [Go to Normal Mode] of the menu frame on WEB and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Remove the RKAKXs or RKAKs until the maximum configuration (three RKAKs + one RKAKX) or (seven RKAKs) becomes as follows referring to Addition/Removal/ Relocation "2.3 Removing Additional Subsystem on Rack Frame".	Addition/Removal/ Relocation "2.3 Removing Additional Subsystem on Rack Frame" (ADD 02-0130)
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R53Z00	Down grade install NG [The background process of Dynamic Provisioning is running]	Since the operation directed to the DP Volume is operating in the background, the version cannot be downgraded to the firmware which is not supporting the operation in the background of the DP Volume.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Change it to the maintenance mode again after waiting for about five minutes.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				4. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54000	Down grade install NG [Advanced Security Mode of Account Authentication is "ENABLE"]	Since Advanced Security Mode of the Account authentication function is "Enabled", the version downgrade to the firmware which is not supporting Advanced Security Mode is impossible.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to "Settings" – "License" in the unit window of Hitachi Storage Navigator Modular 2, and check the "Status" of ACCOUNT. When "Status" is "Disabled", change it to "Enabled".	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000) "Account Authentication User's Guide"
				5. Set Advanced Security Mode to "Disabled" referring to "Account Authentication User's Guide".	"Account Authentication User's Guide"
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54100	A bad LBA was detected in the uploaded firmware file	It was detected that the write LBA value written in the firmware upload file was illegal.	Simple Trace	① 1. Acquire the firmware from CD-R again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
R54200	Down grade install NG [The SAS HDD is installed in the RKAKX]	Since the SAS Disk Drive is installed in RKAKX, the version downgrade to the firmware which is not supporting the SAS Disk Drive is impossible in RKAKX.	Simple Trace	① 1. Perform the update installation of the firmware supporting the SAS Disk Drive installation in RKAKX. 2. Nevertheless, if the version downgrade of the firmware is necessary, only when RKAKX in which the SAS Disk Drive is installed is connected as the Additional Chassis of UNIT #1 or more, remove all RKAKXs. 3. Perform the version downgrade.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000) Addition/Removal/ Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000) WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54300	Down grade install NG [The remote path is connected to the unsupported frontend port]	In the setting of the TrueCopy remote replication function or the TrueCopy Extended Distance function, the version downgrade cannot be performed because the remote path connection port of the remote-side array subsystem is set as the unsupported front-end port in the firmware to be installed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Examine the unlocked licenses referring to [Settings] – [Licenses] of the unit window of Hitachi Storage Navigator Modular 2.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. Among the unlocked licenses, refer to the "User's Guide" (*1) of the relevant license, and delete the remote path whose remote path connection port is set as the unsupported front-end port.	"User's Guide"
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

*1 : License name and manual name.

No.	License name	Manual name
1	TRUECOPY	TrueCopy remote replication User's Guide
2	TC-EXTENDED	TrueCopy Extended Distance User's Guide

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54400	Down grade install NG [The Data pool is created with DP Volume]	Since the data pool which used the DP Volume exists, the version downgrade to the firmware not supporting the data pool of the DP Volume cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to [Replication] – [Setup] – [Data Pool] in the unit window of Hitachi Storage Navigator Modular 2, and delete all the data pools created by specifying the DP Volume.	–
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54500	Down grade install NG [The Copy-on-write SnapShot pair of DP Volume exists]	Since the Copy-on-write SnapShot pair which used the DP Volume exists, the version downgrade to the firmware not supporting the Copy-on-write SnapShot pair which used the DP Volume cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to the "Copy-on-write SnapShot User's Guide", and cancel the Copy-on-write SnapShot pair which used the DP Volume.	"Copy-on-write SnapShot User's Guide"
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54600	Down grade install NG [The TrueCopy pair of DP Volume exists]	Since the TrueCopy remote replication pair or True Copy Extended Distance pair which used the DP Volume exists, the version downgrade to the firmware not supporting the TrueCopy remote replication pair or True Copy Extended Distance pair which used the DP Volume cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Examine the unlocked licenses referring to [Settings] – [Licenses] of the unit window of Hitachi Storage Navigator Modular 2.	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. Among the unlocked licenses, refer to the "User's Guide" (*1) of the relevant license, and cancel the pair which uses the DP Volume.	"User's Guide"
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

*1 : License name and manual name.

No.	License name	Manual name
1	TRUECOPY	TrueCopy remote replication User's Guide
2	TC-EXTENDED	TrueCopy Extended Distance User's Guide

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54700	Down grade install NG [SAS7K is installed]	Since the SAS7.2K Disk Drives are installed, the version downgrade to the firmware which does not support the SAS7.2K Disk Drives cannot be performed.	Simple Trace	① Obtain the firmware which supports the SAS7.2K Disk Drives, and perform the installation again from the beginning.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				② Remove all the installed SAS7.2K Disk Drives, and then perform the update installation of the firmware whose version is to be downgraded.	
				1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Remove all the installed SAS7.2K Disk Drives.	Addition/Removal/Relocation "2.4.3 Removing a Disk Drive" (ADD 02-0220)
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54800	Down grade install NG [Inappropriate firmware is being installed]	The firmware to be installed is not supporting this subsystem.	Simple Trace	① Install the firmware (0893/B or more) supported by this subsystem.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54900	Down grade install NG [The memory reconfiguration process has not completed]	During reconfigure memory or after a failure of reconfigure memory, since it is not recovered, the firmware version downgrade cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to [Settings] – [License] in unit window of the Hitachi Storage Navigator Modular 2, and check [Status].	System Parameter "Chapter 6. Setting an Extra-cost Optional Feature" (SYSPR 06-0000)
				5. When [Status] is [Reconfigure Memory], wait until [Status] changes to [Normal].	–
				6. When [Status] is [Failure of Reconfigure Memory], refer to "User's Guide"(*1) of the corresponding license, and perform the maintenance corresponding to the failure factor.	"User's Guide"
				7. Check that [Status] changed to [Normal].	–
				8. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				9. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

*1 : License name and manual name.

No.	License name	Manual name
1	SNAPSHOT	Copy-on-write SnapShot User's Guide
2	TC-EXTENDED	TrueCopy Extended Distance User's Guide
3	D_PROVISIONING	Dynamic Provisioning User's Guide

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54A00	Down grade install NG [The DP Capacity Mode is set to "Maximum Capacity"]	Since the DP capacity mode is set to "Maximum Capacity", the version downgrade to the firmware which is not supporting "Maximum Capacity" of the DP capacity mode cannot be performed.	Simple Trace	① 1. Check if the version of the installed firmware is the expected version.	–
				2. • When the version of the installed firmware is incorrect, use the firmware of the expected version, and perform the update installation of the firmware again. • When the version of the firmware to be installed is the expected version, perform the maintenance operation in Step ②.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Delete the DP volumes and DP pools created by the Dynamic Provisioning function referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
				5. Refer to "Dynamic Provisioning User's Guide", and change the DP capacity mode to "Normal Capacity".	
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54B00	Down grade install NG [ShadowImage P-VOL has two or more S-VOLs of PAIR or COPY]	Among the ShadowImage pairs which share the same P-VOL, since the statuses of two or more pairs are the copy processing execution statuses (Paired, Synchronizing, Paired Internally Synchronizing, Split Pending), the version downgrade to the firmware which is not supporting the function to copy the data of one P-VOL of ShadowImage to multiple S-VOLs at the same time cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to [Replication] – [Local Replication] in the unit window of the Hitachi Storage Navigator Modular 2.	–
				5. Refer to "ShadowImage in-systemreplication User's Guide", and request the customer/SE to sort out all the ShadowImage pairs which share the same P-VOL.	"ShadowImage in-systemreplication User's Guide"
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Request the customer/SE to perform any of the following procedures (a, b, c) so that there will be only one pair or no pair which has any of the pair statuses, "Paired", "Synchronizing", "Paired Internally Synchronizing" and "Split Pending" among multiple ShaodwImage pairs which share the same P-VOL. Note that, when operating the ShadowImage pair, explain to the customer/SE about referring to "ShadowImage in-systemreplication User's Guide". [Procedures] Perform the following procedures when there are two or more pairs which have any of the following pair status among the ShadowImage pairs which share the same P-VOL. • Paired • Synchronizing • Paired Internally Synchronizing • Split Pending a. From those pairs, select only one pair to continue to execute the ShadowImage copy, and split the remaining pairs. b. Split all those pairs. c. From those pairs, select only one pair to use ShadowImage continuously, and delete the remaining pairs.	"ShadowImage in-systemreplication User's Guide"

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				8. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				9. For the ShadowImage pair whose pair status was changed in Step ①-6, request the customer/SE to execute as-needed pair operation of ShadowImage.	–
R54C00	Down grade install NG [A ShadowImage S-VOL Pair status is "Failure(S-VOL Switch)"]	Among the ShadowImage pairs which share the P-VOL, since the ShadowImage pair whose pair status is "Failure (S-VOL Switch)" is included, the version downgrade of the firmware which is not supporting the function to copy the data of one P-VOL of ShadowImage to multiple S-VOLs at the same time cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Refer to [Replication] – [Local Replication] in the unit window of the Hitachi Storage Navigator Modular 2.	–
				5. Refer to "ShadowImage in-systemreplication User's Guide", and request the customer/SE to confirm that the ShadowImage pairs which share the same P-VOL are created in the subsystem.	"ShadowImage in-systemreplication User's Guide"
				6. Request the customer/SE to confirm all the ShadowImage pairs whose pair status is not "Failure (S-VOL Switch)" among the ShadowImage pairs in Step ①-5.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. Request the customer/SE to delete all the ShadowImage pairs whose pair status is not “Failure (S-VOL Switch)” among the ShadowImage pairs in Step ①-5.	–
				8. Change it to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
				9. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB “3.3.1 Microprogram” (WEB 03-0270)
				10. For the ShadowImage pair whose pair status was changed in Step ①-6, request the customer/SE to execute as-needed pair operation of ShadowImage.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54D00	Down grade install NG [Power Saving Status of a RG is "Normal(Command Monitoring)"]	Since the command monitoring time of the Power Saving function is set in one or more RAID Groups (there are one or more RAID Groups whose power saving status is "Normal (Command Monitoring)" exist in the subsystem), the version downgrade to the firmware which is not supporting the command monitoring time cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. If the customer/SE executed the spin-down of the Power Saving function before replacing the firmware, the spin-down of the RAID Group may not be executed. To check the power saving status of the RAID Group, connect the subsystem to the Hitachi Storage Navigator Modular 2.	–
				4. Refer to [Power Saving] – [RG Power Saving] in the unit window of the Hitachi Storage Navigator Modular 2.	–
				5. Check the availability of the RAID Groups whose power saving status is "Normal (Spin Down Failure:PS OFF/ON)".	–
				6. If the RAID Groups whose power saving status is "Normal (Spin Down Failure:PS OFF/ON)" are found, check with the customer/SE if it is necessary to spin down the disk drives of those RAID Groups and change the power saving status of the RAID Groups to "Power Saving (Spin Down)". If there is no need to execute the spin-down for the disk drives of those RAID Groups, proceed to Step ①-10.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				7. When executing the spin-down, set the "I/O Monitoring Time" to "0" in the "Execute Spin Down" instruction for the RAID Groups that the customer/SE instructed to execute the spin-down.	–
				8. Check that the power saving status of the RAID Groups instructed to "Execute Spin Down" is "Power Saving (Spin Down)" (=Spin-down is completed).	–
				9. Check that there is no RAID Group whose power saving status is "Normal (Command Monitoring)" (=Spin-down is not completed) in the subsystem (if the power saving status of the RAID Groups is "Normal (Command Monitoring)", the offline update installation of the firmware in the subsystem fails).	–
				10. If the spin-down is not executed, execute the "Execute Spin Up" instruction for the RAID Group that the customer/SE gave the instruction not need to execute the spin-down.	–
				11. Check that the power saving status of the RAID Group instructed to "Execute Spin Up" is "Normal (Spin Up)" (=Spin－up is completed).	–
				12. Check that there is no RAID Group whose power saving status is "Normal (Spin Down Failure:PS OFF/ON)" in the subsystem.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				13. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				14. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54E00	Down grade install NG [The DP pool whose stripe size is set to 64KB exists]	Since the DP pool whose stripe size is 64 k bytes exists, the version downgrade to the firmware which does not support the DP pool whose stripe size is 64 k bytes cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Select the [DP Pool] tab from [Group] – [Logical Unit] in the unit window of Hitachi Storage Navigator Modular 2.	"Dynamic Provisioning User's Guide"
				5. Delete all DP pools whose stripe sizes are 64 k bytes.	
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54F00	Down grade install NG [Inappropriate firmware is being installed]	The firmware to be installed is not supporting this subsystem.	Simple Trace	① Install the firmware (0897/C or more) supported by this subsystem.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54G00	Down grade install NG [The Full Capacity Mode is set to "ENABLE"]	Since the DP Volume whose Full Capacity Mode of the Dynamic Provisioning function is set to Enabled exists, the version cannot be downgraded to the firmware which is not supporting the full capacity mode.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Select [Performance] – [DP Optimization] in the unit window of Hitachi Storage Navigator Modular 2.	"Dynamic Provisioning User's Guide"
				5. Refer to the displayed window, and select the DP Volumes whose [Full Capacity Mode] is [Enabled].	
				6. Click the [Change Attribute] button for all the DP Volumes whose [Full Capacity Mode] is set to [Enabled], and set [Full Capacity Mode] to [Disabled].	
				7. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				8. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54H00	Down grade install NG [SAS(SED) is installed]	Since the SAS (SED) Drive are installed, the version downgrade to the firmware which does not support the SAS (SED) Drive cannot be performed.	Simple Trace	① Order the firmware which supports the SAS (SED) Drive, and perform the installation from the beginning again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② Remove all the installed SAS (SED) Drive, and then perform the update installation of the firmware whose version is to be downgraded.	
				1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Remove all the installed SAS (SED) Drive.	Addition/Removal/Relocation "2.4.3 Removing a Disk Drive" (ADD 02-0220)
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54J00	Down grade install NG [RKAKS is connected.]	You cannot execute the update installation of the version downgrade to the firmware which does not support the RKAKS because the RKAKS is connected.	Simple Trace	① Perform the update installation of the firmware which supports the RKAKS.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② 1. Removing the RKAKS.	Addition/Removal/ Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
				2. Perform the update installation of the firmware whose version is to be downgraded.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54K00	Down grade install NG [A background change process of DP management info is running]	Since the internal processing by the DP pool operation from Hitachi Storage Navigator Modular 2 is running in the background, the version downgrade to the firmware which does not support the background processing of the DP pool cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Click "Warning Information/Information Message" of the menu frame in the WEB window.	–
				4. Sort out all the messages of "I6DQ00 The change process of DP management information has started (Pool-x)".	–
				5. Wait until the message of "I6DR00 The change process of DP management information has completed (Pool-x)" is output for all the messages in ①-4.	–
				6. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				7. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54L00	Down grade install NG [The cascade of ShadowImage and SnapShot exists]	Since the P-VOL of ShadowImage and the P-VOL of SnapShot are the same LUs or the S-VOL of ShadowImage and the P-VOL of SnapShot are the same LUs, the version cannot be downgraded to the firmware which is not supporting the cascade of the above-mentioned ShadowImage and SnapShot.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Select [Replication] - [Local Replication] in the unit window of Hitachi Storage Navigator Modular 2.	–
				5. Sort out LU#s of the P-VOL whose [Copy Type] field is "SnapShot".	–
				6. Sort out LU#s of the P-VOL and the S-VOL whose [Copy Type] field is "ShadowImage".	–
				7. List up LU# whose number is overlapping among LU#s sorted out in ① - 5 and ① - 6.	–
				8. For respective LU#s listed up in ① - 7, request the customer/SE to determine whether or not to cancel the pair status of the ShadowImage pair or to cancel the pair status of the SnapShot pair.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				9. • When cancelling the pair status of the ShadowImage pair, request the customer/SE to refer to "ShadowImage in-system replication User's Guide" and cancel the pair status. • When cancelling the pair status of the SnapShot pair, request the customer/SE to refer to "Copy-on-write SnapShot User's Guide" and cancel the pair status.	"ShadowImage in-system replication User's Guide" "Copy-on-write SnapShot User's Guide"
				10. Sort out LU#s of the P-VOLs whose [Copy Type] field is "SnapShot".	–
				11. Sort out LU#s of the P-VOLs and the S-VOLs whose [Copy Type] field is "ShadowImage".	–
				12. Check that there is no LU# whose number is overlapped among LU# sorted out in ① - 10 and in ① - 11.	–
				13. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				14. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54M00	The error of Initial setup was detected because RKAKS was connected	The RKAKS is connected to Unit #0. Therefore, you cannot execute Initial Setup of the firmware which does not support the RKAKS.	Simple Trace	① Execute Initial Setup with the firmware which supports the RKAKS.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				② 1. Request the customer/SE to back up the data of the logical unit set in the RKAKS as needed.	–
				2. Delete the RAID group/Spare Disks set in the RKAKS.	System Parameter "Chapter 3. Setting the RAID/LU/Spare Disk" (SYSPR 03-0000)
				3. Removing the RKAKS.	Addition/Removal/ Relocation "Chapter 2. Removing Optional Components" (ADD 02-0000)
				4. Execute Initial Setup.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54N00	Down grade install NG [Data At Rest Encryption is enabled]	Since the priced option "Data At Rest Encryption" is unlocked, the version downgrade to the firmware which does not support Data At Rest Encryption cannot be performed.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Check whether RAID Groups/LUs which use SAS (SED) Disk Drives are in the array subsystem or not by using Hitachi Storage Navigator Modular 2.	System Parameter "Chapter 3. Setting the RAID/LU/Spare Disk" (SYSPR 03-0000)
				5. When RAID Groups/LUs which use SAS (SED) Disk Drives are in the array subsystem, check with the customer/SE and request to back up the data as needed.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				6. Request the customer/SE to back up the master authentication key.	–
				7. After completing the backup of the data and the master authentication key, delete all the RAID Groups/LUs which used SAS (SED) Disk Drives.	System Parameter "Chapter 3. Setting the RAID/LU/Spare Disk" (SYSPR 03-0000)
				8. Remove all the installed SAS (SED) Disk Drives.	Addition/Removal/Relocation "2.4.3 Removing a Disk Drive" (ADD 02-0220)
				9. Refer to "Data At Rest Encryption User's Guide", and lock the Data At Rest Encryption of the priced option.	"Data At Rest Encryption User's Guide"
				10. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				11. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54P00	Down grade install NG [Unsupported MU number is set for the target firmware]	The version downgrade to the firmware which is not supporting the left-mentioned MU No. was performed while MU No. (8 to 39) of the ShadowImage pair or MU No. (32 to 39) of the SnapShot pair is set.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Refer to the menu frame in the WEB window, and check whether "ShadowImage Information" is displayed or not.	
				1. When "ShadowImage Information" is displayed, click "ShadowImage Information", and list up all the ShadowImage pairs whose MU No. is 8 to 39.	–
				2. Request the customer/SE to refer to "ShadowImage in-system replication User's Guide", and delete all the ShadowImage pairs which were listed up.	"ShadowImage in-system replication User's Guide"
				4. Refer to the menu frame in the WEB window, and check whether "SnapShot Information" is displayed or not.	
				1. When "SnapShot Information" is displayed, click "SnapShot Information", and list up all the SnapShot pairs whose MU No. is 32 to 39.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Request the customer/SE to refer to "Copy-on-write SnapShot User's Guide", and delete all the SnapShot pairs which were listed up.	"Copy-on-write SnapShot User's Guide"
				5. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				6. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54Q00	Down grade install NG [The SATA HDDs whose capacity is 2TB or more are installed]	Since the SATA drive exceeding 2 TB capacity is installed, the version downgrade to the firmware which does not support the SATA drive exceeding 2 TB capacity cannot be performed (when the SATA drive exceeding 2 TB is used in the system drive, the version downgrade of the firmware cannot be performed).	Simple Trace	①1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				2. Check that the subsystem becomes Ready.	–
				3. Connect Hitachi Storage Navigator Modular 2 to the subsystem.	–
				4. Select [Settings] - [Constitute Array] in the unit window of Hitachi Storage Navigator Modular 2.	–
				5. Select [RAID Group/DP Pool/Logical Unit] on the configuration information, and click the [Get Configurations] button.	System Parameter "4.2 (8) Setting of Constitute" (SYSPR 04-0280)
				6. 1. Select [RAID Group/ DP Pool] in the acquired area of [Acquire Configuration – RAID Group/DP Pool/ Logical Unit], and click the [OK] button.	
				2. If [RAID Group/DP Pool] is inactive and cannot be selected, select [RAID Group], and click the [OK] button.	
				7. Click the [Get Configurations] button.	–
				8. Click the [Save] button, and save the configuration information file (default file name is config.txt).	–
				9. When the file is saved, click the [Close] button.	–
				10. Open the file saved in ①-8.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				11. When the SATA drive exceeding 2 TB capacity is used for the system drive, the version downgrade of the firmware cannot be performed.	–
				1. For determining whether this condition is met or not, check if [Drive Type] is “SATA” and [Capacity] exceeds 2 TB for five Disk Drives (displayed number of Disk Drives is less than five when the drive is not installed) from [Unit0, HDU0] to [Unit0, HDU4] of “Drive Configuration Information”.	–
				2. If there is a Disk Drive (system drive) whose [Drive Type] is “SATA” and [Capacity] exceeds 2 TB, the version downgrade of the firmware cannot be performed. The maintenance work is terminates.	–
				12. For checking the RAID group configuration, check the detailed information of the Disk Drive with the items of [Drive Configuration Information] for the Disk Drive described in the items of [Drive Location of RAID Group], and sort out all the SATA drives exceeding 2 TB of capacity displayed in [Capacity].	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				13. Similarly, for checking the DP pool configuration, check the detailed information of the Disk Drive described in the items of [Drive Location of DP RAID Group] with the items of [Drive Configuration Information], and sort out all the SATA drives exceeding 2 TB of capacity displayed in [Capacity].	–
				14. In ①-12 and ①-13, if no Disk Drive relevant to the condition exists in the array system, proceed to ①-17.	–
				15. It is required to remove all the SATA drives exceeding 2 TB for performing the version downgrade of the firmware. To achieve this, it is required to delete all the RAID groups and DP pools configured of the SATA drives exceeding 2 TB in advance. Therefore, check with the customer/SE, and request to perform the data backup of the RAID group and the DP pool defined by specifying the SATA drives exceeding 2 TB as needed.	–
				16. Delete all the RAID groups and DP pools configured of the SATA drives exceeding 2 TB.	–
				17. Remove all the SATA drives exceeding 2 TB capacity.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				18. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				19. Perform the update installation of the firmware again to downgrade the version of the firmware.	WEB "3.3.1 Microprogram" (WEB 03-0270)
R54R00	Down grade install NG [There is RAID group or DP pool with SATA HDDs of 2TB or more]	Since the RAID groups and the DP pools configured of the SATA drives exceeding 2 TB capacity exist, the version downgrade to the firmware which does not support the SATA drives exceeding 2 TB capacity cannot be performed.	Simple Trace	① 1. 1. Check if the message of "R54Q00 Down grade install NG [The SATA HDDs whose capacity is 2TB or more are installed]" is displayed in the Information Message in the WEB window.	–
				2. If it is displayed, perform the maintenance according to the message "R54Q00 Down grade install NG [The SATA HDDs whose capacity is 2TB or more are installed]".	–
				② Perform the maintenance according to Troubleshooting "6.1.32 Recovery Method when the Version Downgrade to the Firmware which does not Support the SATA Drives Failed".	Troubleshooting "6.1.32 Recovery Method when the Version Downgrade to the Firmware which does not Support the SATA Drives Failed" (TRBL 06-1430)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
R54S00	Down grade install NG [Remote subsystem is unsupported by microprogram to be installed]	The remote subsystem of TrueCopy remote replication is any of the subsystems HUS110/130/150. Therefore, the update installation cannot be performed for the firmware of the version which does not support TrueCopy remote replication of HUS110/130/150 and Hitachi AMS2100/2300/2500.	Simple Trace	① 1. Check that the version of the firmware to be installed is the version to be originally installed.	–
				2. When the firmware to be installed is wrong, perform the update installation of the firmware to be originally installed again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② 1. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				2. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–
				3. When using TrueCopy remote replication, refer to "Deleting the Remote Path" of "TrueCopy remote replication user's guide" and delete the remote path whose remote subsystem is HUS110/130/150.	"TrueCopy remote replication User's Guide"
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				5. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB "3.6 Other" (WEB 03-0530)
				6. Set [Down Grade Check] of the [Others] window to "Disable".	
				7. Execute the upgrade installation (version downgrade) of the firmware again.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				8. Click "To Maintenance Mode Top" of the "Microprogram Setup" window on WEB.	
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				9. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				10. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–
R54T00	Down grade install NG [Remote subsystem is unsupported by microprogram to be installed]	The remote subsystem of TrueCopy Extended Distance is any of the subsystems HUS110/130/150. Therefore, the update installation cannot be performed for the firmware of the version which does not support TrueCopy Extended Distance of HUS110/130/150 and Hitachi AMS2100/2300/2500.	Simple Trace	① 1. Check that the version of the firmware to be installed is the version to be originally installed.	–
				2. When the firmware to be installed is wrong, perform the update installation of the firmware to be originally installed again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② 1. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				2. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–
				3. When using TrueCopy Extended Distance, refer to "Deleting the Remote Path" of "TrueCopy Extended Distance user's guide" and delete the remote path whose remote subsystem is HUS110/130/150.	"TrueCopy Extended Distance User's Guide"
				4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				5. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB "3.6 Other" (WEB 03-0530)
				6. Set [Down Grade Check] of the [Others] window to "Disable".	
				7. Execute the upgrade installation (version downgrade) of the firmware again.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				8. Click "To Maintenance Mode Top" of the "Microprogram Setup" window on WEB.	
				9. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
				10. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA00xx	Microprogram error [FLS]	A system shutdown occurred because of a logical contradiction. x : Any code	Full Dump	① Turn on the power again.	–
RA01xx	Microprogram error [COM]	Logical illegality of the firmware was detected. (common function). x : Any code	Full Dump	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit which shows this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA0410	Host name delete error	The network download function failed to delete the host name.	Full Dump	① Replace the Controller which displayed the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA0411	NFS unmount error	An NFS unmounting resulted in an error during operation of the network download function.	Full Dump		
RA0412	NFS mount error	An NFS mounting resulted in an error during operation of the network download function.	Full Dump	① Check the Host IP Address entered in the WEB window and the Path (main system storage directory) of the firmware.	–
				② If the error occurs again, replace the Controller which displayed the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA0413	Host name add error	The network download function failed to add the host name.	Full Dump	① Replace the Controller which displayed the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA0414	NFS file open error	A file opening resulted in an error during operation of the network download function.	Full Dump	① Check the Host IP Address entered in the WEB window and the Path (main system storage directory) of the firmware.	–
				② If the error occurs again, replace the Controller which displayed the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA0415	System file error	An error was detected in a file in the directory storing the system during operation of the network download function.	Full Dump	① Check if the directory, in which the main system is stored, entered in the Web window and the files stored in it are correct.	–
				② Replace the Control Unit if the error recurs.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA30xy	CACHE size mismatch b/w. CTL (CACHE-x)	A cache mounting error occurred. x : Cache Unit # (0-3)	Simple Trace	① 1. Check if the Cache Unit is installed in a correct location by referring to the location of the corresponding Cache Unit on the normal mate Control Unit.	Troubleshooting "10.2.1 Maintenance with the Hitachi Storage Navigator Modular 2 (GUI Version)"(TRBL 10-0080)
				2. Replace the Cache Unit	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
RA4000	CTL synchronized error	Synchronization failed.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA4100	CTL initial synchronized error	Time-out occurred in another system because of an initial synchronization.	Full Dump	① Click the Information Message in the WEB window and scroll the window of [Controller 0] and [Controller 1]. When the CUDG error is displayed, follow the recovery method in the CUDG detection message.	"Chapter 2. CUDG Detected Messages" (MSG 02-0000)
				② When the CUDG error is not displayed, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA4200	Maintenance mode synchronized error	A synchronization error occurred in maintenance mode.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA6000	CTL number mismatch	The single mode is set in the system parameter but dual mode is selected actually.		① Set the system parameter correctly in the WEB maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
RA6100	System parameter undefined	System parameter information (common) is not set.			

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA7000	Microprogram revision mismatch	The systems drive-loaded between Control Units are mismatched.		① If this message is displayed when the subsystem power is turned on, turn on the power again.	–
				② 1. If this message is displayed when the subsystem power is on and the Control Unit is replaced, the replaced Control Unit and the ENC cable of the Additional Chassis are not connected correctly. First, check the ENC cable connection.	–
				2. Remove the replaced Control Unit temporarily.	Installation “2.4.2 (4) Removing the Control Unit” (INST 02-0370)
				3. Connect the ENC cable correctly again.	–
				4. Install the Control Unit again.	Installation “2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board” (INST 02-0550)
				③ Replace the Control Unit to a new Control Unit again.	Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
				④ If not recovered yet, contact the Technical Support Center.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA7600	CTL unit type is different between the controllers	It was detected that the types of Control Unit #0 and Control Unit #1 are mismatched due to the occurrence of any one of the following failures at the time of the system start, Control Unit replacement with the subsystem power tuned on or firmware replacement. • Control Unit installation error • Control Unit failure • PCI bus failure between the Control Units • Power Unit failure of the Control Unit Since the revision of D-CTL LSI of each Control Unit is not the allowed combination, you cannot install the Control Unit #0 and the Control Unit #1, which are already installed in the current subsystem, in the subsystem at the same time (for debug).	Simple Trace	① When the CUDG error (01******) is displayed, follow the recovery method in the CUDG detection message.	"Chapter 2. CUDG Detected Messages" (MSG 02-0000)
				② Perform the maintenance according to Troubleshooting "6.1.22 Recovery Method when Detecting the Mismatch of the Control Unit Model Names between the Control Units".	Troubleshooting "6.1.22 Recovery Method when Detecting the Mismatch of the Control Unit Model Names between the Control Units" (TRBL 06-0980)
RA7900	System HDU spin up failed	Spin-up of the system drive failed.	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.24 Recovery Method when the Spin-up of the System Drive Failed".	Troubleshooting "6.1.24 Recovery Method when the Spin-up of the System Drive Failed"(TRBL 06-1030)
RA7A00	CACHE installation error (CACHE-0)	The Cache Unit is not installed in slot #0.	Simple Trace	① Install the Cache Unit in slot #0.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
	CACHE installation error (CACHE-0/1)	Although the Cache Units must be installed in both slot #0 and slot #1, it is only installed in either slot or it is installed in neither slot.	Simple Trace	① Install the Cache Units in both slot #0 and slot #1.	
RA7E0x	CTL unit type error detected (CTL-x)	An illegal Frame type was detected. x : Control Unit # (0-1)	Simple Trace	① When "W01z0x CTL alarm" is displayed after this message, maintain it according to the message.	"Chapter 6. Warning Messages" (MSG 06-0000)
				② In the case other than ①, replace the Control Unit displayed in the message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA7F00	TWSI access error was detected [Read, xx-yy-aa]	In case where the Flash program of the early stage, which the Control Unit began to start, is operating, an error was detected when read of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
RA8000	TWSI access error was detected [Write, xx-yy-aa]	In case where the Flash program of the early stage, which the Control Unit began to start, is operating, an error was detected when write of TWSI (Two Wired Serial Interface) operated. xx : Optional code yy : Optional code aa : Optional code	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
RA830x	CACHE sleep termination process time-out	The release of Cache sleep (status before the Cache Unit becomes electrically usable) timed out. x : 1=LDR, 2=MNT, 3=INS	Full Dump	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA840x	PONCNT parity error	PONCNT parity error. x : 1=LDR, 2=MNT, 3=INS	Full Dump	② If not recovered, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
RA850x	DDR2 I/O buffer error	The adjustment of the impedance for the I/O buffer of DDR2 terminated abnormally. x : 1=LDR, 2=MNT, 3=INS	Full Dump	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
RA870x	The setting of CACHE termination failed	The setting of the terminate value of the Cache Unit terminated abnormally. x : 1=LDR, 2=MNT, 3=INS	Full Dump		
RA880x	CTL number error	It was detected that the SLOT # bit of the PLD GPIO #0 register was an abnormal value. x : 1=LDR, 2=MNT, 3=INS	Full Dump		
RA8900	DCTL hard register error [EMACIN/A_CTLIN]	The other Control Unit is not installed on the register or the blocked status was detected at the same time.	Full Dump		
RA8A00	DCTL EMACIN not detected	The EMACIN bit error occurred during insertion of the Control Unit performed in the state in which the subsystem power was on.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA8F00	The coexistence error of the system drives was detected	SAS HDU and SATA HDU are mixed in the system drive.	Full Dump	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Configure the system drive only with either SAS HDU or SATA HDU again.	–
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
RA8G0x	The MAC address error was detected (CTL-x)	It was detected that the MAC address was illegal. x : Control Unit # (0-1)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA8H0x	The chipset error was detected at the early stage of the CTL initialization (CTL-x)	In starting of the Control Unit, a failure of "chipset" occurred in the early stage. x : Control Unit # (0-1)	Full Dump	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
RA8Ixy	Microprogram error was detected [BCM]	Logical discrepancy of the firmware was detected. (Back-end common control) x : Characters y : Characters	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
RA8Jxy	Microprogram error was detected [BDM]	Logical discrepancy of the firmware was detected. (Back-end drive management control) x : Characters y : Characters	Simple Trace		
RA8Kxy	Microprogram error was detected [BER]	Logical discrepancy of the firmware was detected. (Back-end failure processing control) x : Characters y : Characters	Simple Trace		
RA8Lxy	Microprogram error was detected [BPD]	Logical discrepancy of the firmware was detected. (Back-end protocol driver control) x : Characters y : Characters	Simple Trace		
RA8Mxy	Microprogram error was detected [BSM]	Logical discrepancy of the firmware was detected. (Back-end SAS management control) x : Characters y : Characters	Simple Trace		
RA8Nxy	Microprogram error was detected [DSC]	Logical discrepancy of the firmware was detected. (I/O execution control) x : Characters y : Characters	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RA8P0x	Backend error count of the CTL was over the threshold [CODE-y] (CTL-x)	D-SPC (Drive-side SAS Protocol Chip) detected a Control Unit failure and the failure count exceeded the threshold value. x : Control Unit # (0-1) y : Code # (0-FF)	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit displayed in this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RA8Q0x	Backend error count of the CTL was over the threshold [SAS_FW REBOOTNG] (CTL-x)	The initial setting of D-SPC (Drive-side SAS Protocol Chip) terminated abnormally. x : Control Unit # (0-1)	Simple Trace	② When the ALM LED on the Control Unit displayed in this message lights up, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
RA8R0x	Backend error count of the CTL was over the threshold [SAS_FW FATAL] (CTL-x)	A fatal error of D-SPC (Drive-side SAS Protocol Chip) was detected. x : Control Unit # (0-1)	Simple Trace	③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
RA8S0x	ENC recovery failed [Cable error] (CTL-x)	When the subsystem power is ON and the Control Unit or the firmware is replaced, it was detected that the ENC cable between the Control Unit and the Additional Chassis was connected incorrectly. x : Control Unit # (0-1)	Simple Trace	① 1. Remove the Control Unit displayed in the message.	Installation "2.4.2 (4) Removing the Control Unit" (INST 02-0370)
				2. Reconnect the ENC cable connected to the remove Control Unit correctly.	–
				3. Insert the Control Unit in the chassis.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board" (INST 02-0550)
RA9000	Task make error	Generation of a task or a semaphore failed.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RAA000	CUDG skip	CUDG skip was made.		–	–
RAA100	Remote reboot execute	A remote rebooting was done.		–	–
RAA200	Option data initialized	The unlocking information was initialized owing to an occurrence of a sum check error in the take-over information area (FM) in which the unlocking information is stored.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RB0000	Upload system error	An incorrect firmware (with an incorrect file and/or directory configuration) was specified during a upload.	Simple Trace	① 1. Acquire the firmware from CD-R again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RB0100	File remove error	Deletion of a file on the RAM disk failed.	Simple Trace	① Turn on the power again.	–
				② If the problem is not solved in spite of the above operation, replace the Control Unit on which the ALM LED is lit	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RB0400	System parameter update error	Update of the system parameters failed at the time of start-up. (The threshold value concerning the system parameter update was exceeded.)	Simple Trace	① Reset the system parameters correctly in the Maintenance mode of the Web.	–
				② If the system is still abnormal, replace the above Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RB0500	System parameter load failed	Reading of the system parameter information from the system area failed.	Simple Trace		
RB0800	System parameter update failed	Writing on all drives failed.	Simple Trace	① Reset the system parameters correctly in the Maintenance mode of the Web.	–
				② If not recovered yet, replace the Disk Drives #0 to #4 of the RKM/RKS or the Disk Drives #0 to #4 of the RKAK corresponding to the unit ID#0 connected to the RKH.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
RB0900	System parameter update partially complete	Writing on one to four system drives failed.	Simple Trace	① Turn on the power again. ② If the system is still abnormal, reset the system parameters correctly in the Maintenance mode of the Web.	–
RB0A00	Upload file SUM check error	A sum check error occurred in a read file during a upload.	Simple Trace	① 1. Acquire the firmware from CD-R again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RB0Cxy	CACHE pair check error (CACHE-x/y)	Cache pair check error (Caches installed in the Slot #0, Slot #1, Slot#2 and Slot#3 are different each other.) x : Cache Unit # (0-3)	Simple Trace	① Make the caches in the two slots the same.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RB0D00	RAM disk create failed	Creation of the RAM disk failed.	Full Dump	① Turn on the power again. ② If the problem is not solved in spite of the above operation, replace the Control Unit on which the ALM LED is lit	– Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RB0G00	Initial setup of microprogram failed	Although "Install Guard" displayed in "http://Ipaddress/instlgrd" is set to [Disable], it tried to execute [Initial setup] of the firmware.	Simple Trace	① Change "Install Mode" on the Microprogram Setup window to [Update] and perform the update installation of the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RB0I00	Bad LBA detected in START80M.DAT	It was detected that the write LBA of the uploaded file was an illegal value.	Simple Trace	① 1. Acquire the firmware from CD-R again. 2. Reinstall the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RB0J00	Bad LBA detected in START80S.DAT	It was detected that the write LBA of the uploaded file was an illegal value.	Simple Trace		
RB3000	File size error	An error was detected in file size.	Simple Trace	① Check the firmware you want to install	–
RB3100	File open error	Opening of file failed.	Simple Trace		
RB3200	File read error	Reading of file failed.	Simple Trace		
RB3500	Bad block ID	An illegal block ID was detected.	Simple Trace		
RB7000	Program size too large	The program is too large in size.			
RB8000	Old microprogram exists	There was another system when installation was started.		① If installation may be continued (In this case, all the data in the Disk Drive are deleted (The RAID group and LU deformation are initialized)), insert the next FD and continue installation. ② When the data in the Disk Drive need to be saved, stop the work and perform update installation.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RB8100	Install failed	Installation failed.	Full Dump	① The cause of the failure is indicated under the message. Solve the failure according to the procedure indicated under the message.	–
RB8200	Install partially complete	Installation failed in a part of the drive.	Full Dump	① See [Procedure of locating failed part when the message of "Install partially complete" is output].	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RB8300	Empty system retry full install	Update installation cannot be executed since a system does not exist in the Disk Drive.	Simple Trace	① When this message is displayed in the model upgrade procedure, it has either of the following causes. Perform the maintenance according to "6.2 When Abnormal End Empty System Retry Full Install Occurs (UP 06-0120)" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual.	"6.2 When Abnormal End Empty System Retry Full Install Occurs (UP 06-0120)" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual
				② If it was performed in other than the model upgrade procedure, collect the simple trace, and then contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
RB8400	Download failed	Drive-loading failed.	Simple Trace	① If this message is displayed when the subsystem power is turned on, refer to Troubleshooting "6.1.2 The Subsystem does not Become Ready : Case 1 (Loading Failure)".	Troubleshooting "6.1.2 The Subsystem does not become Ready : Case 1 (Loading Failure)" (TRBL 06-0050)
				② 1. If this message is displayed when the subsystem power is on and the Control Unit is replaced, the replaced Control Unit and the ENC cable of the Additional Chassis are not connected correctly. First, check the ENC cable connection.	–
				2. Remove the replaced Control Unit temporarily.	Installation "2.4.2 (4) Removing the Control Unit" (INST 02-0370)
				3. Connect the ENC cable correctly again.	–
				4. Install the Control Unit again.	Installation "2.4.7 (4) Installing the Control Unit, Cache Unit and Interface Board" (INST 02-0550)
				③ Replace the Control Unit to a new Control Unit again.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				④ If not recovered yet, contact the Technical Support Center.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RB8500	Microprogram extract error	Depression of main firmware failed.		① Execute update installation.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② If not recovered, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RBA000	Down grade check NG	Although the version down of the firmware was attempted, the update installation terminated abnormally because Down Grade Check was not Disable.		① Change the setting of the downgrade check to Disable, and then updating installation of the firmware again.	WEB "3.3 Setup" (WEB 03-0270)
RBC000	No drive available	There is not a Disk Drive to install.	Simple Trace	① Check if the subsystem of the unit ID #0 is the RKAK for the AMS2500. If it is not so, install the subsystem again so that the subsystem of the unit ID #0 may become the RKAK.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
				② Replace the Disk Drives #0 to #4 of the subsystem of the unit ID #0 one at a time.	
RBC10x	Drive block size error (Unit-0, HDU-x)	The value of the block size of the capacity data reported from the Disk Drive was other than the specified value. x : Disk Drive# (0-23)		① Replace the Disk Drive. Check the model name of the Disk Drive or the drive firmware revision.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030) Replacement "1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive" (REP 01-0110)
RBC20x	Unknown drive (Unit-0, HDU-x)	The value of the logical block address of the capacity data reported from the Disk Drive was equal to or less than the size of the system area. x : Disk Drive# (0-23)			
RBE000	Flash memory write error	Writing in the flash memory failed.	Simple Trace	① When the ALARM LED on the front of the Basic Chassis lights up, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				② If not recovered, perform the maintenance according to "W01z0x CTL alarm".	"Chapter 6. Warning Messages" (MSG 06-0000)
				③ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
RBE100	Flash memory SUM check error	A sum check error is detected in the flash memory.	Full Dump	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RBE200	Flash program update error	When the FM firmware which failed in maintenance of the flash version is updated, its version is not matched to the version of the main firmware.		① Perform the installation upgrade.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				② If not recovered, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
RBE300	Flash program update start	Updating of the FM1 flash program was started by the latest REV maintenance function of the flash program.		–	–
RBE301	Flash program update end	Updating of the FM1 flash program was started by the latest REV maintenance function of flash program.		–	–
RBE500	Initial setup error by LU access restriction	The Initial setup failed because access to the LU was restricted.	Simple Trace	① The Initial setup is impossible. To update the firmware, do it by means of the update installation.	–
RBE600	Config clear restart error by LU access restriction	The Config clear restart failed because access to the LU was restricted.	Simple Trace	① The Config clear restart is impossible. To reboot, specify the TakeOver (takeover reboot).	–
RBE900	Upgrade failed (the installed microprogram is incorrect)	The upgrade from the lower model to the upper model failed.		① Perform the update installation of the firmware for the upper model which is the same revision as the firmware installed in the lower model.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RBEA00	Downgrade failed (the installed microprogram is incorrect)	The installation of the firmware for the lower model to the chassis of the upper model failed.		① Since the revision of the firmware of the lower model to install needs to be the same as that of the revision of the firmware already installed in the subsystem, install the firmware of the same revision as the firmware revision displayed on the WEB window of the maintenance mode. In that case, specify the lower model for the model of the subsystem.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RBEN00	Installation of the other CTL detected on install mode	The start-up could not be made because the FM mode was the installation mode (for emergency) at the time of the installation of a Control Unit of the other system.	Full Dump	① When the FM MODE is the installation mode, pull out the JP and make the start-up again.	–
				② If not recovered, replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
RBEQ00	Down grade install NG [Going to Maintenance Mode procedure is abnormal]	The downgrade installation of the firmware cannot be performed because it entered the maintenance mode before the subsystem starts.	Simple Trace	① 1. Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
RBES00	Down grade install NG [FLASH program revision mismatch]	Because the FLASH firmware version is not consistent between the Control Units, the firmware downgrade installation cannot be performed.	Simple Trace	2. Install the firmware again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RBET00	Check sum error detected in all system drives	Check sum error was detected in all system drives during installing the firmware update.	Simple Trace	① 1. Turn off the main switch.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Turn on the main switch again after 20 seconds or more elapsed after turning it off.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
				3. Change it to the maintenance mode after the READY LED (green) lights on or "RB8400 Download failed" is displayed on the Information Message of WEB and the subsystem goes down.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
				4. Update the firmware again.	WEB "3.3.1 Microprogram" (WEB 03-0270)
				5. When the firmware is updated, if this message is displayed and this failure occurs even if the above-mentioned recovery method is repeated three times, perform new installation.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
RBEU00	Bad LBA detected in START80H.DAT	It was detected that the write LBA of the uploaded file was illegal.	Simple Trace	① 1. Acquire the firmware from CD-R again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
				2. Reinstall the firmware.	

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Chapter 6. Warning Messages

• Detail of the message code variable value

	Contents	Detailed contents	
z	Chassis type	1 : SMS100, 2 : DF800S, 3 : DF800M, 4 : DF800H, 6 : DF800ES, 7 : DF800EM, 8 : DF800EH, 9 : DF800EXS, A : RKAK, B : RKAKX, C : DF800EXSA, D : DF800EXS8F, E : RKAKS, F : Classification is impossible	
a	Disk Drive type	1 : SAS 10,000 rpm 3.5-type, 2 : SAS 15,000 rpm, 3 : SATA 7,200 rpm, 4 : SATA 10,000 rpm, 5 : SSD, 7 : SAS7.2K 7,200 rpm, 8 : SED 15,000 rpm, A : SAS 10,000 rpm 2.5-type,, Z : Classification is impossible	
b	Disk Drive model name code	SAS	2 : AKF400, 4 : AKH146, 5 : AKH300, 7 : AKH450, C : AKH600, f: :AMF600, w : AMF300
		SAS 7.2K	B : AWE2K
		SAS Dense	9 : AKH450X, A : AKH600X
		SAS 7.2K Dense	a : AWE2KX
		SATA	J : AVE500, K : AVE750, Q : AVE1K, V : AVE2K, j : AVE3K
		SATA Dense	U : AVE1KX, W : AVE2KX, k : AVE3KX
		SSD	F : AKS200, G : AKS400
		SAS(SED)	b : ANH600
		SAS(SED) Dense	c : ANH600X
c	Disk Drive model name	Character string : 0 to 8 characters	
d	Cache type	1 : 1 G byte, 2 : 2 G bytes, 4 : 4 G bytes	
e	ENC Unit type	0 : RKAK ENC Unit, 1 : SMS110 ENC Unit, 2 : RKAKX ENC Unit, Undetermined : Power-saving ENC Unit	
f	Host Connector	0 : 4 G FC, 1 : 8 G FC, 2 : 10 G iSCSI	

Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W01z0x	CTL alarm (CTL-x)	The Control Unit was regressed (It had a failure or was not connected), or a failure was detected in the Control Unit of another system during the initial setting operation. x : Control Unit # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail)	CTL Alarm Trace	① When "I19000 Online micro-update completed" is displayed before this message, it shows that no Control Unit failure has occurred.	–
				② When the ALARM LED (red) is lit, take a recovery action according to in Troubleshooting "6.1.1 System Down".	Troubleshooting "6.1.1 System Down" (TRBL 06-0020)
				③ Take the recovery actions according to the messages listed in Troubleshooting "4.5 The Priority Error Messages when "CTL alarm" is Displayed".	Troubleshooting "4.5 The Priority Error Messages when "CTL alarm" is Displayed" (TRBL 04-0180)
				④ If only "H90210 CTL failure" is displayed besides this message, connect the Control Unit on which the ALM LED is illuminating to the Web, and follow the recovery instruction message displayed on the Web.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				⑤ When the failures have occurred in both ENC Unit #0 and Control Unit #0 of Unit #0 connected to the RKH, replace ENC Unit #0. Moreover, when the failures have occurred in both ENC Unit #1 and Control Unit #1 of Unit #0 connected to the RKH, replace ENC Unit #1.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				⑥ Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				⑦ When the ALARM LED on the front of the Basic Chassis does not light up and the ALM LED on the Control Unit displayed in the message does not light up either, the maintenance work is not necessary because the internal retry processing was executed in the Control Unit.	–
W02000	Other CTL removed	A shutdown occurred in MPU on the Control Unit of another system.	Simple Trace	① Replace the Control Unit whose ALM LED is on.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
W03z0x	Battery alarm (Battery-x)	An error occurred in the Cache Backup Battery. x : Cache Backup Battery # (0-3) z : Chassis type (Refer to (MSG 06-0000) for the detail)	Simple Trace	① Perform the maintenance according to the recovery procedure of the message text "Battery error inf." displayed at the same time with the message.	–
W0400x	Battery back up circuit alarm (CTL-x)	The battery backup circuit failed. x : Control Unit # (0-1)		① When any one of the following messages is displayed, follow the recovery procedure given by it. • W03z0x Battery alarm • W3Tzxy Additional Battery	–
				② If only "W0400x Battery back up circuit alarm" is displayed, replace a Control Unit that has the number "x".	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W05z00	FAN alarm (Unit-x, FAN-y)	An error occurred in the Fan Assembly of the Basic Chassis or Additional Chassis. x : Unit ID # (0-59) y : FAN Unit # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail)		① Replace the FAN Unit displayed in the message.	Replacement "2.2.3 Replacing FAN Unit" (REP 02-0350)
W06z00	FAN alarm (CTL-Unit, FAN-x)	The FAN Unit failed. x : FAN Unit # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail)			
W07zy0	PS alarm (Unit-w, PS-x)	An error occurred in the Power Unit. w : Unit ID # (0-59) x : Power Unit # (0-1) y : 0 = AC Power Unit, 1 = DC Power Unit z : Chassis type (Refer to (MSG 06-0000) for the detail)		① Replace the Power Unit displayed in the message.	Replacement "2.2.4 Replacing Power Unit" (REP 02-0390)
W08zy0	PS alarm (CTL-Unit, PS-x)	An error occurred in the Power Unit. x : Power Unit # (0-1) y : 0 = AC Power Unit, 1 = DC Power Unit z : Chassis type (Refer to (MSG 06-0000) for the detail)		① When Power Saving is not used, start work from ②. After checking that the Disk Drives in which the spin-up command was executed were all spun up, remove the inserted Power Unit from the chassis, and insert it again after 20 seconds or more passed. (*1)	Replacement "2.2.4 Replacing Power Unit" (REP 02-0390)
				② When one of the following messages is displayed at the same time, follow the recovery procedure given by the message. • W05z00 FAN alarm" • W06z00 FAN alarm	–
				③ Replace the Power Unit displayed in the message.	Replacement "2.2.4 Replacing Power Unit" (REP 02-0390)

*1 : If the part was replaced at the time between the execution and the completion of the spin-up of the priced option, Power Saving (until "I1GZ00 The spin up of disk drives completed" is displayed for the RAID Group that "I1GY00 The request of spin up of disk drives is accepted" is displayed in "Information Message" on WEB), the part may not recover normally.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W09zab	HDU alarm (Unit-x, HDU-y, Type-c)	The Disk Drive is blocked. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : Chassis type (Refer to (MSG 06-0000) for the detail) a : Disk Drive type (Refer to (MSG 06-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 06-0000) for the detail) c : Disk Drive model name (Character string : 0 to 8 characters)	Simple Trace	① When one of the following messages is displayed at the same time, follow the recovery procedure given by the message. • I30A00 HDU number which is installed in RKAKX exceeds the restriction • I30B00 The SAS HDU is installed in the restricted HDU slot of in RKAKX • I30C00 SAS HDU and SATA HDU cannot be installed in the same RKAKX • IY1C00 Installed HDD numbers are over the limit for the subsystem	–
W0Azab	SATA HDU alarm (Unit-x, HDU-y, Type-c)	The Disk Drive is blocked. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : Chassis type (Refer to (MSG 06-0000) for the detail) a : Disk Drive type (Refer to (MSG 06-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 06-0000) for the detail) c : Disk Drive model name (Character string : 0 to 8 characters)	Simple Trace	② Replace the Disk Drive.(*1) When you want to know a model name of the Disk Drive or a revision of the drive firmware, refer to Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive”.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030) Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive” (REP 01-0110)
W0Bzab	Spare HDU alarm (Unit-x, HDU-y, Type-c)	The Spare Disk failed. x : Unit ID # (0-59) y : Disk Drive # (0-23) z : Chassis type (Refer to (MSG 06-0000) for the detail) a : Disk Drive type (Refer to (MSG 06-0000) for the detail) b : Disk Drive model name code (Refer to (MSG 06-0000) for the detail) c : Disk Drive model name (Character string : 0 to 8 characters)	Simple Trace		

To be continued to the next page.

*1 : The sequential shutdown may be failed if the Disk Drive is in the blocked status. Maintain the blocked Disk Drive before executing the sequential shutdown.

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<table>
<tr><th>Message code</th><th>Message text</th><th>Description</th><th>Collect the error</th><th>Recovery methods</th><th>Reference page</th></tr>
<tr><td>W0Czab</td><td>SATA Spare HDU alarm (Unit-x, HDU-y, Type-c)</td><td>The Spare Disk failed.
x : Unit ID # (0-59)
y : Disk Drive # (0-23)
z : Chassis type (Refer to (MSG 06-0000) for the detail)
a : Disk Drive type (Refer to (MSG 06-0000) for the detail)
b : Disk Drive model name code (Refer to (MSG 06-0000) for the detail)
c : Disk Drive model name (Character string : 0 to 8 characters)</td><td>Simple Trace</td><td>③1. If not recovered, replace either of the following.
• Replace the Control Unit when the blocked Disk Drive is installed in the RKS and RKM.
• Replace the ENC Unit when the blocked Disk Drive is installed in the Additional Chassis.
Replace the following parts referring to the detected Control Unit # and detected core # of the underlined part of “07/29/2008 10:01:00 00 W09A3J HDU alarm …” on the message.
#: Detect Controller #/ Detect Core #
<table><tr><th>#</th><th>Replacement Part Locations</th></tr><tr><td>00</td><td>Control Unit #0 /ENC Unit #0</td></tr><tr><td>01</td><td></td></tr><tr><td>10</td><td>Control Unit #1 /ENC Unit #1</td></tr><tr><td>11</td><td></td></tr></table></td><td>Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)
Troubleshooting “4.3 (1) (b) Flash/RAM firmware detection message” (TRBL 04-0120)</td></tr>
<tr><td></td><td></td><td></td><td></td><td>2. Perform the dummy replacement (*1) for the Disk Drive displayed in the message after replacing the Control Unit or ENC Unit.</td><td>Replacement “2.2.5 Replacing Control Unit” (REP 02-0450)
Replacement “2.2.9 Replacing ENC Unit” (REP 02-1020)</td></tr>
<tr><td></td><td></td><td></td><td></td><td>④1. If not recovered yet, replace the other Control Unit or ENC Unit.</td><td>Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)</td></tr>
<tr><td></td><td></td><td></td><td></td><td>2. Perform the dummy replacement (*1) for the Disk Drive displayed in the message.</td><td></td></tr>
<tr><td>W0D000</td><td>HDU inquiry error (Unit-x, HDU-y)</td><td>An inquiry error occurred in a Disk Drive inserted with the power turned on.
x : Unit ID # (0-59)
y : Disk Drive # (0-23)</td><td>Simple Trace</td><td>① Replace the Disk Drive.(*2)
When you want to know a model name of the Disk Drive or a revision of the drive firmware, refer to Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive”.</td><td>Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
Replacement “1.1.3 Procedure for Making Sure of Model Name and Drive Firmware of Disk Drive” (REP 01-0110)</td></tr>
</table>

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

*2 : The sequential shutdown may be failed if the Disk Drive is in the blocked status. Maintain the blocked Disk Drive before executing the sequential shutdown.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W0E000	LU alarm (LU-x)	LU was blocked. x : LU # (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.13 A Failure Occurred during Operation : Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation : Case 3 (LU Blockade)" (TRBL 06-0740)
W0Fze0	ENC alarm (Unit-x, ENC-y)	A failure occurred in the ENC Unit. x : Unit ID # (1-59) y : ENC Unit # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail) e : ENC Unit type (Refer to (MSG 06-0000) for the detail)	Simple Trace	①1. Check the wiring of the ENC cable connected to the ENC Unit displayed in the message, and wire the ENC cable correctly again.	–
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				② Replace the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				③1. If not recovered or the phenomenon reoccurs, replace the connection source of the ENC Unit (ENC Unit or Control Unit) displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	
				④1. If not recovered or the phenomenon reoccurs, replace the ENC cable connecting the ENC Unit displayed in the message and the connection source of ENC Unit (ENC Unit or Control Unit).	Replacement "2.2.10 Replacing ENC Cable" (REP 02-1110)
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				To be continued to the next page.	

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				⑤ 1. If not recovered, or the phenomenon reoccurs replace the connection destination (farther side from the Controller) of the ENC Unit (replace the ENC Unit).	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	
				⑥ 1. If not recovered or the phenomenon reoccurs, replace the ENC cable connecting the ENC Unit displayed in the message and the connection destination of ENC Unit (ENC Unit or Control Unit).	Replacement "2.2.10 Replacing ENC Cable" (REP 02-1110)
				2. Perform the dummy replacement (*1) of the ENC Unit displayed in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
				⑦ 1. If not recovered yet, perform the planned shutdown of the subsystem. For the opportunity of the planned shutdown of the subsystem, decide it by consulting with the customer/SE.	Installation "1.5.2 Subsystem Power Off (Sequential Shutdown)" (INST 01-0160)
				2. Replace the other Control Unit (it cannot be replaced with the subsystem power turned on).	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				3. Turn on the power of the subsystem.	Installation "1.5.1 Subsystem Power On" (INST 01-0140)
W0Gze0	SENC alarm (Unit-x, ENC-y)	The SENC Unit failed. x : Unit ID # (0-59) y : SENC Unit # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail) e : ENC Unit type (Refer to (MSG 06-0000) for the detail)	Simple Trace	① When this message is displayed at the time of the subsystem startup, the ENC cable may also have a connection error. Check the cable connection.	–
				② Replace the SENC unit pointed out in the message.	Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)

*1 : This means that the part concerned is removed, and it is reinstalled after 20 seconds or more passed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W0Hz0x	UPS alarm (UPS-x)	Abnormality occurred in the UPS. Or it detected that the UPS interlock cable could not be connected to the UPS. x : UPS # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail)		① When the interlock of the UPS is not used, check the setting of the rotary switch. • When the remote adaptor is used, the rotary switch is "2". • When the remote adaptor is not used, the rotary switch is "0".	Installation "1.6 (2) Setting the Rotary switch" (INST 01-0180)
				② Check if the UPS interlock cable is connected firmly to the Control Unit and the UPS. If it is connected loosely, connect the UPS interlock cable firmly.	–
				③ The take a recovery action referring to the UPS manual.	–
W0Jzcy	CACHE alarm (CTL-x, CACHE-y)	A cache access error occurred. (unrecoverable) x : Control Unit # 0 : Control Unit #0 1 : Control Unit #1 2 : Control Unit #0 and #1 y : Cache Unit # (0-3) c : Cache type (Refer to (MSG 06-0000) for the detail)	Simple Trace	① When "I6070x CACHE error over (CACHE-x) [CRECT]" is displayed with this message at the same time, perform the maintenance according to the message.	–
				② Replace the Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				③ If not recovered, replace the above Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
W0K0xy	Path alarm (Remote-x, Path-y)	A detachment of the path between the DF's occurred. x : Remote # (Array ID) y : Path # (0-7)		① Check whether the power supply of the remote subsystem as a pair turns on or not. Turn on if the power off.	–
				② Check whether the remote equipment is in the Ready status and the path blockage is recovered or not.	
				③ If it has not recovered, refer to Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function".	Troubleshooting "6.1.17 Path Blockade Occurs in the TrueCopy remote replication/TrueCopy Extended Distance Function" (TRBL 06-0820)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W0L000	Unreadable PIN detected (Unit-x, HDU-y)	An unreadable PIN with a failed drive identified has occurred. x : Unit ID # (0-59) y : Disk Drive # (0-23)	Simple Trace	① When "H20100 Parity generation LA error" is displayed after this message and the ALARM LED (red) on the Front Bezel lights up, perform Troubleshooting "6.1.1 System Down".	Troubleshooting "6.1.1 System Down" (TRBL 06-0020)
W0M000	Unreadable PIN detected (Unit-*, HDU-*)	An unreadable PIN without a failed drive identified has occurred. * : This denotes that the failed drive, which caused the incomplete writing, could not be specified.	Simple Trace	② When "W3D00 Forced parity correction LU is detected" is displayed before this message and the forced parity correction is being executed, perform the maintenance according to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110)
				③ When the message code "H20100 Parity generation LA error" is displayed after this message, refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
				④ When the message is displayed during the Disk Drive restoration and "I15300 Data recovery partial" is displayed after completing it, perform the maintenance according to Troubleshooting "6.1.8 (1) When a read error occurred in the copy source during the correction copy or copy back, and the forced recovery was executed".	Troubleshooting "6.1.8 (1) When a read error occurred in the copy source during the correction copy or copy back, and the forced recovery was executed" (TRBL 06-0640)

To be continued to the next page.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				⑤ When the message is displayed during the Disk Drive restoration and "I15200 Data recovery failed" is displayed after completing it, perform the maintenance according to Troubleshooting "6.1.8 (2) When a read error occurred in the copy source during the correction copy or copy back, and the data recovery terminated abnormally".	Troubleshooting "6.1.8 (2) When a read error occurred in the copy source during the correction copy or copy back, and the data recovery terminated abnormally" (TRBL 06-0641)
				⑥ When "I6D300 Unreadable PIN resisted" is displayed with this message at the same time, perform the maintenance according to the message.	–
				⑦ When a RAID level of the RAID group, one of whose components is the failed Disk Drive, is RAID 0, refer to Troubleshooting "6.1.14 A Failure Occurred during Operation: Case 4 (Incomplete Writing)".	Troubleshooting "6.1.14 A Failure Occurred during Operation: Case 4 (Incomplete Writing)" (TRBL 06-0760).
W0N00x	Parity generation LA error [DRR] (CTL-x)	An LA error occurred during the parity generation. (DRR failure) x : Control Unit # (0-1)	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W0Pz0f	Host connector alarm (Portxy)	A trouble occurred in the Host Connector. x : Control Unit # (0-1) y : Port # (A-H) z : Chassis type (Refer to (MSG 06-0000) for the detail) f : Host connector type (Refer to (MSG 06-0000) for the detail)	Simple Trace	① Replace the Host Connector displayed in the message.	Replacement "2.2.8 Replacing Host Connector" (REP 02-0950)
W0Q000	LU alarm	LU blockage occurred.	Simple Trace	① Refer to Troubleshooting "6.1.13 A Failure Occurred during Operation : Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation : Case 3 (LU Blockade)" (TRBL 06-0740)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W0R000	User data lost (LU-x)	The user data were lost since the Cache memory was volatilized. (*1) x : LU # (0-4095)	Simple Trace	① Refer to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110)
W0S000	PS OFF failed [NO HDU]	The plan was not stopped since there was not a Disk Drive to save the information to be taken over.	Simple Trace	① Refer to Troubleshooting "6.1.6 The Power cannot be Turned Off : Case 3 (Control Unit Failure)".	Troubleshooting "6.1.6 The Power cannot be Turned Off : Case 3 (Control Unit Failure)" (TRBL 06-0600)
W0T000	PS OFF failed [CACHE ERR]	The plan was not stopped since a cache failure occurred and the PIN data could not be saved.	Simple Trace	① Refer to Troubleshooting "6.1.7 The Power cannot be Turned Off : Case 4 (Cache Memory Failure)".	Troubleshooting "6.1.7 The Power cannot be Turned Off : Case 4 (Cache Memory Failure)" (TRBL 06-0620)
W0U0xy	DMA error (DMA-y)	DMA failed. x : 00 (DDR) 1y (DDMA) 2y (HDMA) FF (unknown) y : D-CTL LSI port # (0-7, F)	Simple Trace	① Control Unit of the No. indicated by "Cx" (x: Control Unit #) in the log message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
W0V0xy	LA error [errcode:LUN] (D_PT-00, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Drive Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W0W0xy	LA error [errcode:LUN] (D_PT-01,CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Drive Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W0Y0xy	LA error [errcode:LUN] (H PT-00, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

*1 : When "LU-0000" is displayed, the LU #0 data or the configuration information on the subsystem is lost. Check the LU #0 status in the Hitachi Storage Navigator Modular 2, and if LU #0 has errors, follow the recovery methods ①. If it is normal, the recovery operation is not needed.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W0Z0xy	LA error [errcode:LUN] (H PT-01, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Host Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W100xy	LA error [errcode:LBA] (D_PT-00, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Drive Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W120xy	LA error [errcode:LBA] (D_PT-01, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Drive Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W130xy	LA error [errcode:LBA] (H PT-00, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W140xy	LA error [errcode:LBA] (H PT-01, CTL-x, TRNS-y)	An LA error (including a LUN error) occurred in the Drive Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W150xy	LA error [errcode:LUN] (D_PT-02, CTL-x, TRNS-y)	A LUN error occurred in the Drive Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W160xy	LA error [errcode:LUN] (D_PT-03, CTL-x, TRNS-y)	A LUN error occurred in the Drive Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W170xy	LA error [errcode:LBA] (D_PT-02, CTL-x, TRNS-y)	A LBA error occurred in the Drive Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W180xy	LA error [errcode:LBA] (D_PT-03, CTL-x, TRNS-y)	A LBA error occurred in the Drive Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W190xy	LA error [errcode:LUN] (H_PT-02, CTL-x, TRNS-y)	A LUN error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1A0xy	LA error [errcode:LUN] (H_PT-03, CTL-x, TRNS-y)	A LUN error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1B0xy	LA error [errcode:LBA] (H_PT-02, CTL-x, TRNS-y)	A LBA error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1C0xy	LA error [errcode:LBA] (H_PT-03, CTL-x, TRNS-y)	A LBA error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1D0xy	LRC error (D_PT-00, CTL-x, TRNS-y)	A LRC error occurred in the Drive Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1E0xy	LRC error (D_PT-01, CTL-x, TRNS-y)	A LRC error occurred in the Drive Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W1F0xy	LRC error (D_PT-02, CTL-x, TRNS-y)	A LRC error occurred in the Drive Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W1G0xy	LRC error (D_PT-03, CTL-x, TRNS-y)	A LRC error occurred in the Drive Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1H0xy	LRC error (H_PT-02, CTL-x, TRNS-y)	A LRC error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1J0xy	LRC error (H_PT-03, CTL-x, TRNS-y)	A LRC error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1K00x	Data transfer check error [SEGPOSERR] (CTL-x)	(Data assurance check) An illegal cache writing segment position was detected. x : Control Unit # (0-1)	Simple Trace		
W1L000	EDC LA error [error code : LUN] (H_PT-00, CTL-x, TRANS-y)	An EDC_LUN error occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1M000	EDC LA error [error code : LUN] (H_PT-01, CTL-x, TRANS-y)	An EDC_LUN error occurred in the Host Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1N000	EDC LA error [error code : LUN] (H_PT-02, CTL-x, TRANS-y)	An EDC_LUN error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W1P000	EDC LA error [error code : LUN] (H_PT-03, CTL-x, TRANS-y)	An EDC_LUN error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W1Q000	EDC LA error [error code : LBA] (H_PT-00, CTL-x, TRANS-y)	An EDC_LBA error occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1R000	EDC LA error [error code : LBA] (H_PT-01, CTL-x, TRANS-y)	An EDC_LBA error occurred in the Host Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1S000	EDC LA error [error code : LBA] (H_PT-02, CTL-x, TRANS-y)	An EDC_LBA error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1T000	EDC LA error [error code : LBA] (H_PT-03, CTL-x, TRANS-y)	An EDC_LBA error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1U000	EDC LA error [error code : CRC] (H_PT-00, CTL-x, TRANS-y)	An EDC_CRC error occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1V0xy	LRC error (H PT-00, CTL-x, TRNS-y)	A LRC error occurred in the Host Port #00. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W1W0xy	LRC error (H PT-01, CTL-x, TRNS-y)	A LRC error occurred in the Host Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W1Y000	EDC LA error [error code : CRC] (H_PT-01, CTL-x, TRANS-y)	An EDC_CRC error occurred in the Host Port #01. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W1Z000	EDC LA error [error code : CRC] (H_PT-02, CTL-x, TRANS-y)	An EDC_CRC error occurred in the Host Port #02. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W20000	EDC LA error [error code : CRC] (H_PT-03, CTL-x, TRANS-y)	An EDC_CRC error occurred in the Host Port #03. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W230xy	LA error [errcode:LUN] (D_PT-05, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LUN error was detected in D-PORT #05 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W240xy	LA error [errcode:LUN] (D_PT-06, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LUN error was detected in D-PORT #06 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W250xy	LA error [errcode:LUN] (D_PT-07, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LUN error was detected in D-PORT #07 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W260xy	LA error [errcode:LBA] (D_PT-04, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LBA error was detected in D-PORT #04 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W270xy	LA error [errcode:LBA] (D_PT-05, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LBA error was detected in D-PORT #05 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W280xy	LA error [errcode:LBA] (D_PT-06, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LBA error was detected in D-PORT #06 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W290xy	LA error [errcode:LBA] (D_PT-07, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LBA error was detected in D-PORT #07 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2A0xy	LRC error (D_PT-04, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LRC error was detected in D-PORT #04 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2B0xy	LRC error (D_PT-05, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LRC error was detected in D-PORT #05 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2C0xy	LRC error (D_PT-06, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LRC error was detected in D-PORT #06 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2D0xy	LRC error (D_PT-07, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LRC error was detected in D-PORT #07 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W2E0xy	LA error [errcode:LUN] (H_PT-04, CTL-x, TRNS-y)	A LUN error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W2F0xy	LA error [errcode:LUN] (H_PT-05, CTL-x, TRNS-y)	A LUN error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2G0xy	LA error [errcode:LUN] (H_PT-06, CTL-x, TRNS-y)	A LUN error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2H0xy	LA error [errcode:LUN] (H_PT-07, CTL-x, TRNS-y)	A LUN error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2J0xy	LA error [errcode:LBA] (H_PT-04, CTL-x, TRNS-y)	A LBA error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2K0xy	LA error [errcode:LBA] (H_PT-05, CTL-x, TRNS-y)	A LBA error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2L0xy	LA error [errcode:LBA] (H_PT-06, CTL-x, TRNS-y)	A LBA error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2M0xy	LA error [errcode:LBA] (H_PT-07, CTL-x, TRNS-y)	A LBA error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W2N0xy	LRC error (H_PT-04, CTL-x, TRNS-y)	A LRC error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W2P0xy	LRC error (H_PT-05, CTL-x, TRNS-y)	A LRC error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2Q0xy	LRC error (H_PT-06, CTL-x, TRNS-y)	A LRC error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2R0xy	LRC error (H_PT-07, CTL-x, TRNS-y)	A LRC error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2S000	EDC LA error [error code:LUN] (H_PT-04, CTL-x, TRANS-y)	An EDC_LUN error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2T000	EDC LA error [error code:LUN] (H_PT-05, CTL-x, TRANS-y)	An EDC_LUN error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2U000	EDC LA error [error code:LUN] (H_PT-06, CTL-x, TRANS-y)	An EDC_LUN error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2V000	EDC LA error [error code:LUN] (H_PT-07, CTL-x, TRANS-y)	An EDC_LUN error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W2W000	EDC LA error [error code:LBA] (H_PT-04, CTL-x, TRANS-y)	An EDC_LBA error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W2Y000	EDC LA error [error code:LBA] (H_PT-05, CTL-x, TRANS-y)	An EDC_LBA error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W2Z000	EDC LA error [error code:LBA] (H_PT-06, CTL-x, TRANS-y)	An EDC_LBA error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W30000	EDC LA error [error code:LBA] (H_PT-07, CTL-x, TRANS-y)	An EDC_LBA error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W31000	EDC LA error [error code:CRC] (H_PT-04, CTL-x, TRANS-y)	An EDC_CRC error occurred in host port #04. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W32000	EDC LA error [error code:CRC] (H_PT-05, CTL-x, TRANS-y)	An EDC_CRC error occurred in host port #05. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W34000	EDC LA error [error code:CRC] (H_PT-06, CTL-x, TRANS-y)	An EDC_CRC error occurred in host port #06. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		
W35000	EDC LA error [error code:CRC] (H_PT-07, CTL-x, TRANS-y)	An EDC_CRC error occurred in host port #07. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W36000	PIN write error	PIN data were not saved in the Disk Drive since a hardware error occurred.	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.5 The Power cannot be Turned Off : Case 2 (Hardware Failure)".	Troubleshooting "6.1.5 The Power cannot be Turned Off : Case 2 (Hardware Failure)" (TRBL 06-0580)
W3800x	SNMP invalid (CTL-x) [Config]	There is not SNMP information but SNMP information has not been introduced. The SNMP function has not started up. x : Control Unit # (0-1)		① Install the information for SNMP.	–
W390xy	Permanent LU warning (CTL-x, ERR-y)	Residence OFF warning occurred in the LU residence mode. x : Default Control Unit # (0-1) y : Factor code 0 : Too large LU 1 : Cache access error 2 : Regression of Control Unit 3 : Abnormal battery voltage 4 : Abnormal battery charging circuit	Simple Trace	① y=0 : Return the configuration of Cache memory. (Add cache memory.) y=1 : Perform maintenance described in message code "W0Jzcy CACHE alarm". To resume the LU cache resident function after recovering from a cache failure, turn off and then on an array unit. y=2 : Perform maintenance described in message code "W01z0x CTL alarm". y=3 : Perform maintenance described in message code"W03z0x Battery alarm" and "W3Tzxy Battery alarm". y=4 : Perform maintenance described in message code"W0400x Battery back up circuit alarm".	–
W3A00x	Online micro-update executing (CTL-x)	The firmware of a Control Unit has not been replaced with the power turned on. x : Control Unit # (0-1) This message is indicated to warn that firmware of a Control Unit is being replaced with the power turned on. If replacement of the firmware is finished, this warning disappears.		–	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3B00x	Online micro-update started (CTL-x)	The Control Unit was blocked falsely to replace the firmware with the power turned on, or the Control Unit of another system was blocked falsely. x : Control Unit # (0-1)		–	–
W3C00x	Serial number error [WWN] (CTL-x)	WWW could not be set since the serial number of the subsystem was set incorrectly. x : Control Unit # (0-1)		① Check with the Technical Support Center that there is no error in the serial number setting of the device.	–
W3D000	Forced parity correction LU is detected	An LU, which required the forced parity correction, was detected.		① Refer to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110)
W3E000	Uncorrectable forced parity correction LU is detected	An LU, the forced restoration for which by means of parity could not be continued, was detected.		① Check the LU information using the Hitachi Storage Navigator Modular 2. ② Have the LU, the forced restoration for which by means of parity cannot be continued, skip the restoration by issuing an instruction to skip the restoration using the Hitachi Storage Navigator Modular 2.(*1) The warning is removed after all the LUs, the forced restoration for which by means of parity cannot be continued, receive an instruction to skip the restoration.	–

*1 : When there is an LU which is not executing the forced parity correction, the dynamic sparing is suppressed and the data recovery is always executed by the correction copy. Also, the copy back from the Spare Disk Drive does not operate. In this case, perform the skip instruction for all the LUs that the LU status is "Correction Aborted" after the data recovery to the Spare Disk Drive. The dynamic sparing and the copy back can be executed now by this operation.

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3F000	Forced parity correction LU is detected by HDU alarm	Drive detachment occurred in a RAID group whose RAID level was 6 and an LU, which was in the forced parity correction status of "Uncorrected and Drive Detached", was detected.		① Refer to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110)
				② Select whether to execute the forced parity correction or skip it after any of the following messages was displayed. • I007ab HDU recovered • I009ab Spare HDU recovered	Troubleshooting "6.1.3 < Procedure given in windows >" (TRBL 06-0320)
W3G000	PIN is over directory threshold [write through] (DIR-x)	The number of pinned sub-segments in the directory (that is, unit of cache domain management) exceeded the threshold value of performing the write through operation. x : Directory # (0 or 1)	Simple Trace	① Refer to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690)
W3H000	PIN is over directory threshold [write will not run] (DIR-x)	The number of PIN sub-segments in the directory (unit of the Cache area management) exceeded the threshold for the check condition to respond to the write command. x : Directory # (0 or 1)	Simple Trace		
W3J000	PIN is over partition threshold [write through] (DIR-x, PTT-y)	The number of pinned sub-segments in the partition exceeded the threshold value of performing the write through operation. x : Directory # (0 or 1) y : Partition # (0-31)	Simple Trace		
W3K000	PIN is over partition threshold [write will not run] (DIR-x, PTT-y)	The number of PIN sub-segments in the partition exceeded the threshold for the check condition to respond to the write command. x : Directory # (0 or 1) y : Partition # (0-31)	Simple Trace		
W3L000	PIN is over RAID group threshold [write through] (DIR-x, RG-y)	The number of pinned sub-segments in the RAID group exceeded the threshold value of performing the write through operation. x : Directory # (0 or 1) y : RAID group # (0-99)	Simple Trace		

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3M000	PIN is over RAID group threshold [write will not run] (DIR-x, RG-y)	The number of PIN sub-segments in the RAID group exceeded the threshold to execute the write command. x : Directory # (0 or 1) y : RAID group # (0-99)	Simple Trace	① Refer to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690)
W3N000	DM-LU write disable (LU-x)	Write to DM-LU disabled was detected. x : LU # (0-4095)	Simple Trace	① 1. Replace the detached Disk Drive pointed out in the message, "HDU alarm" referring to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110) Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
W3P000	All DM-LU write disabled	The planned shutdown became unable to be executed because it was detected that the write to all the DM-LUs was impossible and the following one or more conditions were satisfied. • A pair that the pair status of ShadowImage in-system replication is COPY or PSUS exists. • A pair that the pair status of TrueCopy remote replication is COPY, PSUS or PSUE exists. • The key of Copy-on-write SnapShot is enabled. • The key of TrueCopy Extended Distance is enabled. • A pair that the pair status of Modular Volume Migration is COPY or PSUS exists.	Simple Trace	2. Format DM-LU.	–
W3Q00x	SNMP error occurred in the SNMP function (CTL-x)	The SNMP function detected an error. x : Control Unit # (0-1)	Simple Trace	① Do maintenance work following the message displayed after this message. • IB1200 SNMP Task error • IB1300 SNMP configuration • IB1400 SNMP agent detected the error • IB1500 SNMP IP address error • IB1600 SNMP Initialization error • IB1700 SNMP RAM Device allocation error for SNMP	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3Rxyz	Interface Board alarm (CTL-w, I/F-z)	A hardware failure of the Interface Board was detected. x : Chassis type (Refer to (MSG 06-0000) for the detail) y : Type of Interface Board (Fibre (4G-2Port) : 0, Fibre (4G-4Port) : 1, iSCSI (1G-2Port) : 2, Fibre (8G-4Port) : 3, iSCSI (10G-2Port) : 5, Unmount : F) z : Slot of Interface Board # (0-1) w : Control Unit # (0-1)	CTL Alarm Trace	① Check if the type of the Interface Board displayed in the message is unsupported.	–
				② If it is unsupported, upgrade the version of the firmware to 0843/C or 0846/A or more.	WEB "3.3.4 Installation Procedure" (WEB 03-0350) However, be careful about the offline procedure.
				③ Replace the Interface Board displayed in the message. When "HB0F00 iSCSI protocol chip overheating was detected (CTL-x, I/F-y)" is displayed at the same time, since the iSCSI Interface Board is in the high temperature, replace the Interface Board displayed in the message after a lapse of 15 minutes from the Control Unit blockade.	Replacement "2.2.7 Replacing Interface Board" (REP 02-0800)
				④ If not recovered, replace the Control Unit displayed in the message code "W01z0x CTL alarm" which was output at the same time with this message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
W3S0xy	LA error [errcode:LUN] (D_PT-04, CTL-x, TRNS-y)	[D-DMA Transfer Failure] An LUN error was detected in D-PORT #04 of D-CTL LSI. x : Control Unit # (0-1) y : Transfer direction R : Read direction W : Write direction	Simple Trace	① Refer to Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation : Case 2 (LA/LRC Error)" (TRBL 06-0720)
W3Tzxy	Battery alarm (Additional Battery-y)	An error occurred in the Additional Backup Box. x : Additional Battery type (0 = AC, 1 = DC) y : Additional Backup Box # (0-1) z : Chassis type (Refer to (MSG 06-0000) for the detail)	Simple Trace	① Perform the maintenance according to the recovery procedure of the message text "Battery error inf." displayed at the same time with the message.	–

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3V000	PIN is over pool threshold [write through] (DIR-x, Pool-y)	The number of PINs of the DP pool exceeded the threshold value of the write through. The write command for the LUs belonging to the DP pool displayed in the message is processed by the write through mode until the number of PINs recovers in less than the threshold value of the subsystem. Therefore, the write performance for these LUs is deteriorated. x : Directory # (0 or 1) y : Pool # (0-63)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690)
W3W000	PIN is over pool threshold [write will not run] (DIR-x, Pool-y)	The number of PINs of the DP pool exceeded the threshold value of the check response to the host. For all the write commands for the LUs belonging to the DP pool displayed in the message, the check condition status is returned to the host computer until the number of PINs recovers in less than the threshold value of the subsystem. Therefore, the write commands for these LUs are not executed. x : Directory # (0 or 1) y : Pool # (0-63)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690)
W3X000	Please replace cache memory to recover from cache correctable error (CTL-x, CACHE-y)	The number of detected correctable errors of the Cache memory exceeded the threshold value by the automatic diagnosis of the Cache memory online. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Simple Trace	① When the ALM LED on the Control Unit displayed in the message lights up, replace the Cache Unit displayed in the message. ② When the ALM LED on the Control Unit displayed in the message goes out and the ALM LED on the other Control Unit lights up in the dual controller system 1. Perform the maintenance of the Control Unit whose ALM LED lights up referring to the Information Message on WEB.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640) Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Ask the customer/SE to allow the preventive replacement of the Cache Unit because correctable errors of the Cache memory have occurred exceeding the threshold value. Moreover, tell the customer/SE about stopping the host I/O in advance due to blocking the Control Unit in which the Cache Unit is installed, and request him/her to consider the replacement date.	–
				3. Replace the Cache Unit displayed in the message according to "(1) Procedure for replacement with the power turned on".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				③When the ALM LEDs on both Control Units go out, but the message is only displayed for one Control Unit in the dual controller system	
				1. Ask the customer/SE to allow the preventive replacement of the Cache Unit because correctable errors of the Cache memory have occurred exceeding the threshold value. Moreover, tell the customer/SE about stopping the host I/O in advance due to blocking the Control Unit in which the Cache Unit is installed, and request him/her to consider the replacement date.	–
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				2. Replace the Cache Unit displayed in the message according to "(1) Procedure for replacement with the power turned on".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				④ When the ALM LEDs on both Control Units go out and the message is displayed for both Control Unit #0 and Control Unit #1 in the dual controller system	
				1. Ask the customer/SE to allow the preventive replacement of the Cache Unit because correctable errors of the Cache memory have occurred exceeding the threshold value. Moreover, tell the customer/SE about stopping the host I/O in advance due to blocking the Control Unit in which the Cache Unit is installed, and request him/her to consider the replacement date.	–
				2. Confirm the customer/SE from which Control Unit of Control Unit #0 and Control Unit #1 he/she replaces the Cache Unit.	–
				3. Replace the Cache Unit displayed in the message for the Control Unit confirmed in the procedure ④-2 according to "(1) Procedure for replacement with the power turned on".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				4. Replace the Cache Unit displayed in the message for the other Control Unit according to "(1) Procedure for replacement with the power turned on".	
				⑤In case of the single controller system	
				1. Ask the customer/SE to allow the preventive replacement of the Cache Unit because correctable errors of the Cache memory have occurred exceeding the threshold value. Moreover, since the subsystem needs the planned shutdown, tell the customer/SE about stopping the host I/O in advance, and request him/her to consider the replacement date.	–
				2. Replace the Cache Unit displayed in the message for the other Control Unit according to "(2) Procedure for replacement with the power turned off".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3Y000	Please replace cache memory to recover from cache uncorrectable error (CTL-x, CACHE-y)	An uncorrectable error of the Cache memory was detected by the automatic diagnosis of the Cache memory online. x : Control Unit # (0-1) y : Cache Unit # (0-3)	Simple Trace	①When the ALM LED on the Control Unit displayed in the message lights up, replace the Cache Unit displayed in the message.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				②When the ALM LED on the Control Unit displayed in the message goes out and the ALM LED on the other Control Unit lights up in the dual controller system	
				1. Perform the maintenance of the Control Unit whose ALM LED lights up referring to the Information Message on WEB.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
				2. Ask the customer/SE to allow the preventive replacement of the Cache Unit because uncorrectable errors of the Cache memory have occurred. Moreover, since the subsystem needs the planned shutdown, tell the customer/SE about stopping the host I/O in advance, and request him/her to consider the replacement date.	–
				3. Replace the Cache Unit displayed in the message according to "(1) Procedure for replacement with the power turned on".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				To be continued to the next page.	

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
				③When the message is displayed for both Control Unit #0 and Control Unit #1 in the dual controller system	
				1. Ask the customer/SE to allow the preventive replacement of the Cache Unit because uncorrectable errors of the Cache memory have occurred. Moreover, since the subsystem needs the planned shutdown, tell the customer/SE about stopping the host I/O in advance, and request him/her to consider the replacement date.	–
				2. Replace the Cache Unit displayed in the message for the other Control Unit according to "(2) Procedure for replacement with the power turned off".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
				④In case of the single controller system	
				1. Ask the customer/SE to allow the preventive replacement of the Cache Unit because uncorrectable errors of the Cache memory have occurred. Moreover, since the subsystem needs the planned shutdown, tell the customer/SE about stopping the host I/O in advance, and request him/her to consider the replacement date.	–
				2. Replace the Cache Unit displayed in the message for the other Control Unit according to "(2) Procedure for replacement with the power turned off".	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)

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Message code	Message text	Description	Collect the error	Recovery methods	Reference page
W3Z000	The count of search for failure part in backend route was over the threshold (Path-x)	The search count of the failed part in the backend path exceeded the threshold value. x : Path # (0-7)	Simple Trace	① 1. Collect a simple trace.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
				2. Contact the Technical Support Center, and send the collected simple trace.	–
				3. The Technical Support Center is required to specify the failed part by analyzing the simple trace.	–
				4. Replace the alleged failed part reported by the Technical Support Center.	Replacement "Chapter 2. Parts Replacement" (REP 02-0000)
				5. Collect the simple trace at the time 30 minutes passed after replacing the part, and send to the Technical Support Center.	–
				6. The Technical Support Center needs to check that no failure has occurred and the device is normal by analyzing the simple trace.	–
W40000	Backend route warning has been detected (Path-x, Route-y)	The firmware determined that multiple suspected failed parts exist in the Path/Route displayed in the message as the result of searching for and identifying a failed part in the backend route. x : Path # (0-7) y : Route # (0-1)	Simple Trace	① Perform the maintenance according to Troubleshooting "6.1.30 Recovery Method when the Multiple Suspected Failed Parts were Detected in the Backend".	Troubleshooting "6.1.30 Recovery Method when the Multiple Suspected Failed Parts were Detected in the Backend" (TRBL 06-1340)"
W43000	SNMP invalid [RAM Device MAKE ERR]	When SNMP was initialized, making of a RAM device failed.	Simple Trace	① Control Unit of the No. indicated by "Cx" (x: Control Unit #) in the log message.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
W43100	SNMP invalid [RAM Device INIT ERR]	When SNMP was initialized, initialization of a RAM device failed.	Simple Trace		
W43200	SNMP invalid [RAM Device CREATE ERR]	When SNMP was initialized, generation of a RAM device failed.	Simple Trace		
W43300	SNMP invalid [RAM Device WRITE ERR]	When SNMP was initialized, writing in a RAM device failed.	Simple Trace		
W43400	SNMP failure [APL ERR]	An application error of SNMP was detected.	Simple Trace		

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Chapter 7. Web Error Messages

In this Chapter, read “microprogram” of the message text as “firmware”.

7.1 Web Error Messages (Uploading Function)

Message code	Message text	Description	Recovery methods	Reference page
-	Abnormal End AT xxxx ******** Upload System Error	The number of areas is other than either of one and two.	① Make sure of the system to be installed and execute the installation again. (The START800. DAT is illegal.)	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
-	Abnormal End Bad Block ID	The block ID is illegal.	① Make sure of the system to be installed and execute the installation again.	
-	Abnormal End Bad LBA In START80A.DAT 0x******** xxxx	LBA is abnormal at the storage destination by the illegal content of “START80A.DAT”.	① Check the upload system, and install it again. (START80A.DAT may have been broken).	
-	Abnormal End Bad LBA In START80H.DAT 0x******** xxxx	LBA is abnormal at the storage destination by the illegal content of “START80H.DAT”.	① Check the upload system, and install it again. (START80H.DAT may have been broken).	
-	Abnormal End Bad LBA In START80M.DAT 0x******** xxxx	LBA is abnormal at the storage destination by the illegal content of “START80M.DAT”.	① Check the upload system, and install it again. (START80M.DAT may have been broken).	
-	Abnormal End Bad LBA In START80S.DAT 0x******** xxxx	LBA is abnormal at the storage destination by the illegal content of “START80S.DAT”.	① Check the upload system, and install it again. (START80S.DAT may have been broken).	
-	Abnormal End Bad LBA In START80X.DAT 0x******** xxxx	LBA is abnormal at the storage destination by the illegal content of “START80X.DAT”.	① Check the upload system, and install it again. (START80X.DAT may have been broken).	
-	Abnormal End Config Clear Restart Error by LU Access Restriction	Config clear restart failed due to the LU access restriction.	① Config clear restart cannot be done. Select Take Over from Configuration Clear Mode and restart.	–
-	Abnormal End Downgrade Failed (The Installed Microprogram is Incorrect) Uploaded Microprogram Revision:XXXX/X Installed Microprogram Revision:XXXX/X	The downgrade in the DF800M/H chassis failed.	① Install the DF800S/M firmware whose system revision is the same as that of the firmware in the Disk Drive.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
-	Abnormal End Down Grade Check NG	Although the version down of the firmware was attempted, the update installation terminated abnormally because Down Grade Check was not Disable.	① Change the setting of the downgrade check to Disable, and then updating installation of the firmware again.	WEB “3.3 Setup” (WEB 03-0270)
-	Abnormal End Down Grade Install NG (FLASH Program Revision Mismatch)	The downgrade installation of the firmware cannot be performed because the FLASH firmware versions are not matched between the Control Units.	① Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	–
			② Check that the subsystem becomes Ready, and execute the downgrade installation of the firmware again.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)

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Message code	Message text	Description	Recovery methods	Reference page
-	Abnormal End Down Grade Install NG (Going to Maintenance Mode Procedure is Abnormal.)	The downgrade installation of the firmware cannot be performed because it is changed to the maintenance mode while the subsystem is starting.	① Click [Go to Normal Mode] of the menu frame in the WEB window, and start the subsystem.	–
			② Check that the subsystem becomes Ready, and execute the downgrade installation of the firmware again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
-	Abnormal End Down grade install NG [Modular Volume Migration feature is installed]	The update installation cannot be performed for the firmware of the revision which is not supporting the Modular Volume Migration function because the priced option of the Modular Volume Migration function is unlocked.	① 1. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
			2. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–
			3. Lock the priced option of the Modular Volume Migration function referring to Modular Volume Migration User's Guide "3.1.2 Uninstalling Volume Migration".	Modular Volume Migration User's Guide "3.1.2 Uninstalling Volume Migration"
			4. Change it to the maintenance mode.	WEB "Chapter 3. The Maintenance Mode Operation Procedure" (WEB 03-0000)
			5. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB "3.6 Other" (WEB 03-0530)
			6. Set [Down Grade Check] of the [Others] window to "Disable".	
			7. Execute the upgrade installation (version downgrade) of the firmware again.	WEB "3.3.1 Microprogram" (WEB 03-0270)
			8. Click "To Maintenance Mode Top" of the "Microprogram Setup" window on WEB.	
			9. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
			10. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–

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Message code	Message text	Description	Recovery methods	Reference page
-	Abnormal End Down grade install NG [Modular Volume Migration has already taken place]	The update installation cannot be performed for the firmware of the revision which is not supporting the Modular Volume Migration function because the LU that the Modular Volume Migration is executed exists in the subsystem with the Modular Volume Migration function.	① 1. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB "3.7 Return Method to the Normal Mode" (WEB 03-0540)
			2. Check that the "I10000 Subsystem is ready" is displayed in the Information Message of the normal mode window on WEB.	–
			3. When the Modular Volume Migration function of the priced option is locked, unlock the Modular Volume Migration function referring to Modular Volume Migration User's Guide "3.1.1 Installing Volume Migration". However, when the Modular Volume Migration function of the priced option is expired, unlock it with the Emergency Key, etc.	Modular Volume Migration User's Guide "3.1.1 Installing Volume Migration"
			4. When the Modular Volume Migration function is disabled, enable the Modular Volume Migration function referring to Modular Volume Migration User's Guide "3.1.3 Enabling or Disabling Volume Migration".	Modular Volume Migration User's Guide "3.1.3 Enabling or Disabling Volume Migration"
			5. Check if the LU whose intermediate LU number and the internal LU number do not match exists by the maintenance mode of the Hitachi Storage Navigator Modular 2.	–
			6. When there is the LU whose intermediate LU number and the internal LU number do not match, perform the Modular Volume Migration so that the intermediate LU number and the internal LU number match referring to the "Modular Volume Migration User's Guide". In that case, the data of the LUs may have to be backed up as needed.	"Modular Volume Migration User's Guide"
			7. Lock the priced option of the Modular Volume Migration function referring to Modular Volume Migration User's Guide "3.1.2 Uninstalling Volume Migration".	Modular Volume Migration User's Guide "3.1.2 Uninstalling Volume Migration"

To be continued to the next page

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Message code	Message text	Description	Recovery methods	Reference page
			8. Change it to the maintenance mode.	WEB “Chapter 3. The Maintenance Mode Operation Procedure” (WEB 03-0000)
			9. Click [Others] in the menu frame of the maintenance mode window on WEB.	WEB “3.6 Other” (WEB 03-0530)
			10. Set [Down Grade Check] of the [Others] window to “Disable”.	
			11. Execute the upgrade installation (version downgrade) of the firmware again.	WEB “3.3.1 Microprogram” (WEB 03-0270)
			12. Click “To Maintenance Mode Top” of the “Microprogram Setup” window on WEB.	
			13. Return the subsystem to the normal mode by clicking the [Go to Normal Mode] button in the menu frame of the maintenance mode window on WEB.	WEB “3.7 Return Method to the Normal Mode” (WEB 03-0540)
			14. Check that the “I10000 Subsystem is ready” is displayed in the Information Message of the normal mode window on WEB.	–
-	Abnormal End Drive Block Size Error AT CDEV **	The drive block size is other than 520 bytes.	① Replace a Disk Drive whose unit ID number is 0 and Disk Drive number is **.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)

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Message code	Message text	Description	Recovery methods	Reference page
-	Abnormal End Empty System Retry Full Install	The updating installation cannot be done because the old firmware does not exist in the system Disk Drive.	①When this message is displayed in the model upgrade procedure, it has either of the following causes. Perform the maintenance according to "6.2 When Abnormal End Empty System Retry Full Install Occurs (UP 06-0120)" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual.	"6.2 When Abnormal End Empty System Retry Full Install Occurs (UP 06-0120)" in "Hitachi AMS2100/2300/2500 Upgrade Procedure Manual
			②If it was performed in other than the model upgrade procedure, collect the simple trace, and then contact the Technical Support Center.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
-	Abnormal End File Open Error	File open error	①Make sure of the system to be installed and execute the installation again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
-	Abnormal End File Read Error	File read error		
-	Abnormal End File Remove Failed	File elimination error	①Execute the utility program load after restarting the subsystem.	–
-	Abnormal End Install Failed	All the drives became abnormal after the installation had been completed.	①Make sure of the system to be installed and the system drive, and then execute the installation again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
-	Abnormal End Initial Setup Error by LU Access Restriction	Initial Setup failed due to the LU access restriction.	①Initial Setup cannot be done. Execute update installation for updating the firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
-	Abnormal End Initial Setup of Microprogram Failed	Initial Setup was done when the installation check on the firmware for DF800S/M was "Disable".	①Execute installation after changing the installation classification to "Update".	–
-	Abnormal End No Drives Available	No normal drive is available.	①Replace the system drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
-	Abnormal End PGMS **** Too Large	The program size is larger than the allowable limit.	①Make sure of the system to be installed and execute the installation again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
-	Abnormal End Upgrade Failed (The Installed Microprogram is Incorrect) Uploaded Microprogram Revision:XXXX/X Installed Microprogram Revision:XXXX/X	The upgrade from DF800S to DF800M failed. Or the upgrade from DF800S/M to DF800H failed.	①Install the DF800M/H firmware whose system revision is the same as that of the DF800S/M firmware.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)

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Message code	Message text	Description	Recovery methods	Reference page
-	Abnormal End Upload File SUM Check Error	Read file sum check error	①Make sure of the system to be installed and execute the installation again.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
-	Abnormal End Upload System Error	The “PRGMAG. DAT” file does not exist. The “START80*. DAT” file does not exist. The “END DAT” file does not exist. The file required does not exist.		
-	Cannot Execute Upload	Java Applet cannot be activated.	①Check if the Java Plug-in is installed. ②Check if it is validated through the setting of Java Plug-in on the operator panel. ③(IE) Check if the setting of ActiveX is validated. ④Check if the (NN) Java plug-in setting is valid.	–
-	Complete BIOS Install	The BIOS installation was completed normally.	–	–
-	Complete MICRO REV:********	The installation was completed normally.	–	–
-	Drive firmware download start	The drive firmware downloading of the firmware was started.	–	–
-	ENC microprogram download start	A firmware downloading for replacing the firmware was started.	–	–
-	File open error [file name]	File open error	①Make sure of the system to be installed.	–
-	File read data err [file name]	File read data error		
-	File read err [file name]	File read error		
-	File size mismatch [file name]	File size inconsistency		
-	File size over [file name]	File size error		
-	If you execute "Initial Setup", the subsystem erase all user data. Are you sure you want to execute this operation? If you wish to execute this operation, please mark the "OK to execute" checkbox and press OK.	The confirmation and the agreement demand of all user data being erased when Initial Setup is executed	–	–

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Message code	Message text	Description	Recovery methods	Reference page
-	If you execute "System Reboot with Configuration Clear", the subsystem erase all user data. Are you sure you want to execute this operation? If you wish to execute this operation, please mark the "OK to execute"	Confirmation dialog message at the time of starting configuration clear	–	–
-	Install revision	Display of a revision of the installed program	–	–
-	Initial Setup (Config and System Parameter Clear) Install Microprogram Rev.********	Make sure that the initial setting up has been done.	–	–
-	Microprogram download ENC#	Firmware replacement was started. [ENC number]	–	–
-	Microprogram download of ENC# in update mode	The start of the update mode of the ENC firmware download is checked.	–	–
-	Microprogram download of ENC# in overwrite mode This download may cause a downgrade of ENC microprogram for any ENCs.	The start of the overwrite mode of the ECN firmware download is checked.	–	–
-	Micro Update Install Microprogram Rev.********	Make sure that the update installation of the firmware has been done.	–	–
-	Old System Exists	There is an existing system when the LAN is installed.	–	–
-	Partially Completed MICRO REV:********	The installation was terminated abnormally.	① Refer to the procedure for finding a cause of a Disk Drive failure to be used when a message, “Install partially complete”, is output.	–
-	System parameter update failed	All the drives do not accept a read instruction.	① Reset the system parameters. ② If the trouble recurs, replace the system drive.	System Parameter (SYSPR 00-0000) Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
-	System Restart With Config Clear	Confirmation dialog message at the time of rebooting the utility mode.	–	–
-	Target HDU not found	The target HDU is not found.	① Make sure of the drive to be rewritten.	–
-	Utility start	The processing of the utility function was started.	–	–

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Message code	Message text	Description	Recovery methods	Reference page
1004	System is Other Boot Up Mode.	Inconsistency of statuses of Applet and the subsystem (Example: The subsystem has started an installation of drive firmware, whereas Applet is loading the utility.)	①Reload the page. ②If the correct page is not displayed, perform the operation over again from the software reset.	–
1005	Booting. Please Retry Again.	The subsystem is being started up.	①Operate over again after waiting for a while.	–
1006	System is Executing Other Event.	The subsystem is already executing the process.	①Make sure of the information message or reload the page.	–
1007	System is Executing Main Process.	The utility is being processed. The drive firmware is being replaced.	①Reload the page.	–
1008	System is Down.	The subsystem cannot execute the process (it has gone down).	①Perform the operation over again from the software reset.	–
1009	Please. Retry Again.	The subsystem stands ready to start the firmware installation.	①Install the firmware over again.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
1010	Please. Retry Again on Other CTL.	Have the controller in another system re-execute the process.	①Have the controller in another system re-execute the process.	–
1011	Please Confirm Information Message.	Make sure of the information message.	①Make sure of the information message.	–
1012	The download request was rejected. Confirm that other download is not in process. Otherwise, please retry after one minute.	A trace start instruction was issued during the host command trace download.	①Check if other user or you are not downloading the trace from other window. ②Execute it again after waiting for one minute or more.	– –
1013	The request was rejected. Please restart again.	The communication other than the trace start instruction was issued while the host command trace is not being downloaded.	①Execute it again after checking the status of the subsystem and the connection environment.	–
1200	The Java Plug-in version in use is not supported. Confirm the Java Plug-in version.	Java Applet was activated with Java Plug-in of a version not supported.	①Activate Java Applet again after making sure of the version of Java Plug-in currently used.	–
1202	A path to the Microprogram isn't being input. Specify a path.	The path to the firmware to be installed is not specified.	①Specify the path to the firmware.	–
1204	A specified file doesn't exist. Confirm elements of designation.	The specified file does not exist.	①Make sure that the path to the directory of the firmware to be installed is specified correctly.	–
1205	A specified directory doesn't exist. Confirm elements of designation.	The specified directory does not exist.	①Check the specified contents and the existence of the directory.	–
1206	A specified path is not a normal file. Specify a file.	A file other than the normal file was specified when the normal file must be specified.	①Check if the specification is correct.	–
1207	A specified path is not a directory. Specify a directory.	A file other than the directory file was specified when the directory file must be specified.		

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Message code	Message text	Description	Recovery methods	Reference page
1210	A specified file is not possible to read. Confirm the condition of the file.	The specified file cannot be read.	① Make sure of a status of the specified file.	—
1212	Access to the specified file was rejected. Confirm the setup of the security policy.	Access to the specified file was rejected according to the security policy.	① Store the file in the "C:\"or "C:\diskarray-microprogram" folder, which permissions are granted to with the security policy settings. ② If not recovered yet, set up the service PC again.	–
1213	Access to the specified directory was rejected. Confirm the setup of the security policy.	Access to the specified directory was rejected according to the security policy.	① Set up the service PC again.	–
1214	An error occurred during the file I/O. Confirm the status of the specified file.	An error occurred during an I/O operation to/from the specified file.	① Make sure of a status of the specified file.	–
1215	A runtime permission wrong matter occurred. Confirm the setup of the security policy.	A request for access to the java.lang.RuntimePermission object was rejected.	① Set up the service PC again.	–
1216	Access to the property information was rejected. Confirm the setup of the security policy.	A request for access to the java.util.OropertyPermission object was rejected.		
1217	A security wrong matter occurred. Confirm the setup of the security policy.	A security trouble occurred.	① Set up the service PC again.	–
1218	An invalid response was received from the subsystem. Confirm the subsystem status and the LAN environment, and then try again.	Communication with the subsystem failed.	① Make sure of the subsystem status and the LAN environment, and then retry.	–
1219	An error occurred during the communication with the subsystem. Confirm the subsystem status and the LAN environment.	An error occurred during the communication with the subsystem.	① Make sure of the subsystem status and the LAN environment, press the Software Reset button, and retry.	–
1220	A path to the Utility Program isn't being input. Specify a path.	The path to the utility program to be installed is not specified.	① Specify the path to the utility program.	–
1221	A path to the Utility Parameter Files isn't being input. Specify a path.	The path to the parameter file to be installed is not specified.	① Specify the path to the utility parameter file.	–
1222	A path to the Drive Firmware Program isn't being input. Specify a path.	The path to the drive firmware program to be installed is not specified.	① Specify the path to the drive firmware program.	–
1223	A HTTPClient library isn't found. Confirm the execution environment.	The HITTPClient library is not found.	① Activate the browser again after setting up the service PC, and then re-execute the firmware installation.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)

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Message code	Message text	Description	Recovery methods	Reference page
1224	A path to the ENC Microprogram isn't being input. Specify a path.	The path to the ENC firmware to be installed is not specified.	① Specify the path to the ENC firmware.	–
1225	Invalid value was specified. Confirm the value.	The input column is empty or an illegal value was entered.	① Check the entered contents, and enter a correct value.	–
1226	Cannot write the file. Check the download directory and the file.	It cannot be output in a file.	① Check the output destination directory of the host command trace download and the status of the output file.	–
			② Check if there is enough HDD free space of the service PC.	–
1227	A path to the Self Heatrun Pattern File isn't being input. Specify a path.	A file is not specified.	① Specify a file in the file name input field.	–
1228	The value input to "password" is illegal	The value of the input password is an illegal value.	① Check if it has six characters or more and 32 characters or less.	–
			② Check if it is configured only with the one-byte alphanumeric characters and the allowed symbols. Allowed characters of password: One-byte alphanumeric characters, 32 types of symbols (! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [\ ] ^ _ ` { | } ~)	–
1229	The "Backup File" isn't being input. Specify the file.	A file is not specified.	① Specify a file in the file name input field.	–
1230	An illegal character is included in the file name.	An illegal character is included in the file name.	① Check if the file name is configured only with the allowed characters. Allowed characters of the file name : One-byte alphanumeric characters, 21 types of symbols (! # $ % & ' ( ) + , - = @ [ ] ^ _ ` { } ~)	–
1231	The size of a specified file exceeds the tolerable quantity. Please specify the file of 4KB or less.	The file size is too large. Be sure to specify the file of 4 k bytes or less.	① It exceeds the file size necessary for the master key restoration. Specify the file which was saved for the backup of the master key restoration.	–
1232	The file name is too long. Please make it to 63 characters or less.	The file name is too long.	① Make the file name with 63 characters or less.	–
1401	An exception occurred in a module.	An exemption occurred in the module.	① Check the specified contents.	–
2000	File upload was cancelled.	The installation of the file was interrupted (artificially).	① Re-execute the installation after activating the browser again.	–
2001	Microprogram installation was cancelled.	The installation of the firmware was interrupted (artificially).	① Re-execute the firmware installation after activating the browser again.	–

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7.2 Web Error Messages (Simple Trace)

Message code	Message text	Description	Recovery methods	Reference page
-	Executing [Simple Trace]	The simple trace is already being executed.	① Perform maintenance after making sure of the subsystem status.	–
-	Not Ready	When the result of a check done at the time of the simple trace execution was illegal	① Retry after making sure of the subsystem status.	–
-	Simple trace failed	The simple trace could not be executed because the subsystem status was abnormal.	① Make sure of the subsystem status.	–
-	Simple trace interrupt	The simple trace was interrupted (because the automatic dump operation was done).	① Perform maintenance after making sure of the subsystem status.	–

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7.3 Web Error Messages (Web Control Management)

Message code	Message text	Description	Recovery methods	Reference page
-	Address is not filled. Please fill in the address.	An illegal address value is not entered.	① Reset each parameter.	–
-	Executing [Simple Trace]	The simple trace is being executed.	① Execute it again after waiting for a while.	–
-	"Invalid machine status."	Illegal status	① Restart the subsystem.	–
-	Invalid Address/Data. Address and Data should be filled with [0-9][a-f][A-F].	The input conditions of the value of the address/data are not met.	① Reset each parameter.	–
-	Invalid address. Please input the address using [0-9] [a-f] [A-F].	Input of an illegal address value (range of input characters)		
-	Invalid address. Please input the address with in the range of [0H-3FFFFFFFFH].	Input of an illegal address value (range of address)		
-	Invalid address. Please input the address with in the range of [0H-7FFFFFFFFH].	Input of an illegal address value (range of address)		
-	Invalid data! Reenter.	The serial number, IP address, subnet mask, gateway, Vendor ID, Product ID and Web Title value are illegal or the result of the input check of ROM/RAM Microprogram Version is illegal. Or, the same value is set to the IP address and the gateway.		
-	Invalid File. Please select again.	Select a file again because it is an invalid file.	① Select a file again.	–
-	Invalid length. Please input the length using [0-9] [a-f] [A-F].	Input of an illegal address value (range of length)	① Reset each parameter.	–
-	Invalid length. Please input the length with in the range of [4H-4000H].	Input of an illegal address value (range of input characters)		
-	Length is not filled. Please fill in the length.	An illegal address value is not entered.		
-	No Address. Please input the Address.	Address is not entered.		
-	No Data. Please input the Data.	Data is not entered.		
-	Not Ready	When the drive separating function exclusive check and the trace collection check are abnormal.	① Execute it again after waiting for a while.	–
-	"Other Event" [********] Executing!	Other event is being executed.		
-	Subsystem is down!	Web task cannot be executed.	① Restart the subsystem.	–

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Message code	Message text	Description	Recovery methods	Reference page
-	'Syntax error was detected in test pattern file. Line Number : ' + cgi_dt	An error exists in the definition statement of the test pattern.	① Specify the definition statement of the test pattern again.	–
-	'The error which cannot be continued occurred. Error code : -1	Heat run cannot be executed because an error that cannot be continued occurred (Error Code: -1)	① Define the LU again.	–
-	The model type is not selected. Please select the lower grade model type.	An error that a model type is not selected	① Select a model type again.	–
-	The password is incorrect.	The password is incorrect.	① Set a password again.	–
-	This menu cannot be executed after "Logging Data"	A dump is being executed.	① Execute it again after waiting for a while.	–
-	“Unknown Event.”	An unknown event occurred.		
-	“Web Task” is executing other request.	The Web task is executing another request.		
-	Web Task Booting..	The Web task is being booted.		
1004	System is Other Boot Up Mode.	Inconsistency of statuses of Applet and the subsystem (Example: The subsystem has started an installation of drive firmware, whereas Applet is loading the utility.)	① Reload the page.	–
			② If the correct page is not displayed, perform the operation over again from the software reset.	–
1005	Booting. Please Retry Again.	The subsystem is being started up.	① Execute it again after waiting for a while.	–
1006	System is Executing Other Event.	The subsystem is already executing the process.	① Make sure of the information message or reload the page.	–
1007	System is Executing Main Process.	The utility is being processed. The drive firmware is being replaced.	① Reload the page.	–
1008	System is Down.	The subsystem cannot execute the process (it has gone down).	① Perform the operation over again from the software reset.	–
1009	Please. Retry Again.	The subsystem stands ready to start the firmware installation.	① Install the firmware over again.	Firmware “Chapter 1. Installation of Firmware” (FIRM 01-0000)
1010	Please. Retry Again on Other CTL.	Have the CTL in another system re-execute the process.	① Have the controller in another system re-execute the process.	–
1011	Please Confirm Information Message.	Make sure of the information message.	① Make sure of the information message.	–
1012	The download request was rejected. Confirm that other download is not in process. Otherwise, please retry after one minute.	A trace start instruction was issued during the host command trace download.	① Check if other user or you are not downloading the trace from other window.	–
			② Execute it again after waiting for one minute or more.	–
1013	The request was rejected. Please restart again.	The communication other than the trace start instruction was issued while the host command trace is not being downloaded.	① Execute it again after checking the status of the subsystem and the connection environment.	–

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Chapter 8. Hitachi Storage Navigator Modular 2 Error Messages

Table 8.1 Hitachi Storage Navigator Modular 2 Error Messages

Message code	Error code	Message text/Recovery methods
DMEA000001	0x00010000	Busy status was reported from the subsystem. Please retry after waiting for a while.
DMEA000002	0x00020000	The Queue Full status was reported from the subsystem. Please retry after waiting for a while.
DMEA000003	0x00030000	LU0 is reserved by another host. Please retry after the reservation is canceled.
DMEA000004	0x00040000	An error was detected in the data received from the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000005	0x00050000	An error occurred while communicating with the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000006	0x00060000	Failed to connect with the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000007	0x00070000	An invalid response was received from the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000008	0x00080000	An unexpected error was reported from the subsystem. Please retry after waiting for a while.
DMEA000009	0x00070001	There is no response from the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA00000A	0x00090000	The CHECK CONDITION status was reported from the subsystem, but the details could not be acquired. Please retry after waiting for a while.
DMEA00000B	0x00001002	Failed to transfer data. Confirm the subsystem status and the LAN environment, and then try again.
DMEA00000C	0x00001003	Failed to issue the SCSI command. Confirm the subsystem status and the LAN environment, and then try again.
DMEA00000D	0x0000FFFF	Insufficient memory. Terminate other programs and then try again.
DMEA00000E	0x0000FFFE	An internal program error occurred. Wait for a while and then try again. If the problem cannot be solved, contact the maintenance personnel.
DMEA000010	0x00000010	An error occurred while communicating with the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000011	0x00000011	An error occurred while communicating with the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000012	0x00000012	An error occurred while secure communicating with the subsystem. Confirm the subsystem status and the LAN environment, and then try again.
DMEA000201	0x00000201	The specified user ID or password is incorrect.
DMEA001000	0x00000001	The information file for the subsystem cannot be opened. Confirm the execution environment.
DMEA001001	0x00000002	The information file for the subsystem is invalid. Confirm the execution environment.
DMEA001002	0x00000003	The specified subsystem name is already registered. Specify another name.
DMEA001003	0x00000004	The specified subsystem name is not registered.
DMEA001004	0x00000005	The registered information does not match the status of the subsystem. Correct the information and then try again.
DMEA001005	0x00000006	The number of registered subsystems has reached the maximum. Delete unnecessary information and then try again.
DMEA001006	0x00000102	Invalid parameter.
DMEA001007	0x00000103	The specified controller is incorrect.
DMEA001008	0x00000104	Failed to open the specified file. Confirm the file name and then try again.
DMEA001009	0x00000105	The contents of the file are invalid. Confirm the file and then try again.
DMEA00100A	0x00000106	Failed to connect with the server. Confirm the registered information and the LAN environment, and then try again.
DMEA00100B	0x00000107	The password is not specified.
DMEA00100C	0x00000108	The password is corrupted. Delete the password file and then try again.

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Message code	Error code	Message text/Recovery methods
DMEA00100D	0x00000301	The specified logical unit is not defined. Specify a defined logical unit.
DMEA00100E	0x00000302	Formatting failed. Confirm the subsystem status and the LAN environment, and then try again.
DMEA00100F	0x00000A01	The file for e-mail setting contains an error.
DMEA001010	0x00000A02	The e-mail information is not set up.
DMEA001011	0x00000A03	The parameter for e-mail setting is invalid.
DMEA001012	0x00000A04	An error was detected while connecting to the mail server. Confirm the mail server and then try again.
DMEA001013	0x00000B01	An internal program error occurred. Wait for a while and then try again. If the problem cannot be solved, contact the maintenance personnel.
DMEA001014	0x00000B02	The connection type is invalid.
DMEA001015	0x00001004	The firmware revision is not supported. Confirm the subsystem status.
DMEA001016	0x00000A05	Failed to start the specified application program. Confirm the path to the specified application and the operational environment.
DMEA001017	0x00000109	An error occurred during the file I/O. Please check the permission and available capacity.
DMEA001018	0x00001005	The specified directory path is invalid. Please specify a right directory path.
DMEA001019	0x00000101	The process cannot be performed because the firmware on the subsystem does not support the function.
DMEA001020	0x00001006	Could not finish replacing the firmware. Please see if there are any alarms or warnings in the subsystem.
DMEA001021	0x00000007	The number of groups reached the maximum. Specify an already registered group or delete an unnecessary group and try again.
DMEA001022	0x0000010A	Hardware error occurred. Confirm the subsystem.
DMEA001023	0x0000010B	The process cannot be performed because the current subsystem does not support the function.
DMEA001024	0x0000010C	Environment variable: STONAVM_HOME is not defined. Specify STONAVM_HOME.
DMEA001025	0x0000010D	The controller in charge of the LU is not registered. Register the controller and then try again.
DMEA001026	0x00000008	The specified information does not match the configuration of the subsystem. Confirm the configuration information.
DMEA001027	0x0000010E	The JRE (Java Runtime Environment) version in use is not supported. Confirm the JRE version.
DMEA001028	0x00001007	Failed to restart the subsystem.
DMEA001029	0x0000010F	Environment variable: STONAVM_HOME does not match. Confirm STONAVM_HOME.
DMEA00102A	0x0000011E	The JRE (Java Runtime Environment) version in use is not supported. Confirm the JRE version.
DMEA00102B	0x0000011F	The process cannot be performed because the current controller in charge of the specified LU is different. Retry from the current controller for the LU.
DMEA001030	0x00000400	The parameter for System Startup Attribute or the item name is invalid.
DMEA001031	0x00000401	The parameter for Spare Disk or the item name is invalid.
DMEA001032	0x00000402	The parameter for Host Connection Mode or the item name is invalid.
DMEA001033	0x00000403	The parameter for Serial Number or the item name is invalid.
DMEA001034	0x00000404	The parameter for Drive Capacity or the item name is invalid.
DMEA001035	0x00000405	The parameter for Option 1 or the item name is invalid.
DMEA001036	0x00000406	The parameter for Option 2 or the item name is invalid.
DMEA001037	0x00000407	The parameter for Data Striping Size or the item name is invalid.
DMEA001038	0x00000408	The parameter for Buzzer or the item name is invalid.
DMEA001039	0x00000409	The parameter for LU Size Report to the Host or the item name is invalid.
DMEA00103A	0x0000040A	The parameter for SCSI Reset/LIP Mode for all Ports or the item name is invalid.
DMEA00103B	0x0000040B	The parameter for Operation if the Processor failures Occurs or the item name is invalid.
DMEA00103C	0x0000040C	The parameter for INQUIRY Information or the item name is invalid.
DMEA00103D	0x0000040D	The parameter for Cache Mode or the item name is invalid.
DMEA00103E	0x0000040E	The parameter for Target ID or the item name is invalid.
DMEA00103F	0x0000040F	The parameter for Port Type or the item name is invalid.
DMEA001040	0x00000410	The parameter for ROM Pseudo-response command processing or the item name is invalid.
DMEA001041	0x00000411	The parameter for Save Data Pointer response or the item name is invalid.
DMEA001042	0x00000412	The parameter for Controller Identifier or the item name is invalid.
DMEA001044	0x00000414	The parameter for Write & Verify Execution Mode or the item name is invalid.

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Message code	Error code	Message text/Recovery methods
DMEA001045	0x00000415	The parameter for LAN CONST or the item name is invalid.
DMEA001046	0x00000416	The parameter for SYNC CONTROL or the item name is invalid.
DMEA001047	0x00000417	There is no file header.
DMEA001048	0x00000418	The present drive configuration for the subsystem cannot support the drive configuration information of the specified file.
DMEA001049	0x00000419	The RAID configuration data is invalid.
DMEA00104A	0x0000041A	The LU configuration data is invalid.
DMEA00104B	0x0000041B	The drive configuration data is invalid.
DMEA00104D	0x00000111	The password length is invalid. Use 12 or fewer characters.
DMEA00104E	0x00000110	The process failed because the function is disabled.
DMEA00104F	0x00000112	Failed to obtain the controller failure dump information. Retry after 10 minutes.
DMEA001050	0x0000041D	The parameter for Web Title or the item name is invalid.
DMEA001051	0x0000041E	The parameter for Delay Planned Shutdown or the item name is invalid.
DMEA001052	0x00000A06	The additional information file cannot be opened. Confirm the execution environment.
DMEA001053	0x00000A07	The additional information file is invalid. Confirm the execution environment.
DMEA001054	0x00000A08	The mail additional information length is invalid.
DMEA001055	0x00000A09	The number of registered mail additional information reached the maximum. Delete unnecessary information and then try again.
DMEA001056	0x00000A0A	An e-mail information cannot be saved. Please check the permission and available capacity of the install directory.
DMEA001070	0x00000113	This program is not installed correctly.
DMEA001071	0x00000018	The function cannot be executed because the LU has already been reserved.
DMEA001072	0x00001008	The specified path name is over 250 characters.
DMEA001073	0x00000115	Failed to create a log directory. Confirm the execution environment.
DMEA001074	0x00001009	The specified path name is incorrect.
DMEA001075	0x0000100A	The specified path does not exist, or no effective files exist under the specified path.
DMEA001076	0x0000100B	The firmware in the specified path does not exist. Please confirm whether the firmware is stored in the path or the specified path is right.
DMEA001077	0x0000100C	Failed to create a firmware file directory. Confirm the execution environment.
DMEA001078	0x00000116	The specified key was not found. Confirm the file and then try again.
DMEA001079	0x00000117	Cannot use this function for the specified device.
DMEA00107A	0x0000100D	The firmware replacement of the specified controller cannot be performed. Please replace the firmware of the other controller first.
DMEA00107B	0x0000100E	The firmware cannot be read. Please check the permission and available capacity of the install directory.
DMEA00107C	0x0000100F	The firmware is not read.
DMEA001080	0x00000118	Cannot set the LU mapping in case of mapping mode is off.
DMEA001081	0x00000119	Failed to get drive information.
DMEA001082	0x00000429	The parameter for Additional Battery Unit Mode or the item name is invalid.
DMEA001083	0x00000420	The parameter for PortOption or the item name is invalid.
DMEA001084	0x00000421	The parameter for HostGroupInformation or the item name is invalid.
DMEA001085	0x00000422	The parameter for HostGroupOption or the item name is invalid.
DMEA001086	0x00000423	The parameter for LuMapping or the item name is invalid.
DMEA001087	0x00000424	The parameter for FibreSecurityInformation or the item name is invalid.
DMEA001088	0x00000425	The parameter for Common Information or the item name is invalid.
DMEA001089	0x00000426	Failed to set up a Mapping Mode. Confirm the setting file and then try again.
DMEA001090	0x00000427	The CTL Header is invalid.
DMEA001091	0x00000428	The PORT Header is invalid.
DMEA001092	0x0000011A	Illegal option set.
DMEA001093	0x0000011B	The function cannot be used because it is not installed, locked, or disabled.
DMEA001094	0x00000501	The specified host group is already defined. Confirm the name or number, and specify a new host group.

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DMEA001095	0x00000502	The specified host group is not defined. Confirm the name or number, and specify a defined host group.
DMEA001096	0x00000503	The host group security on the specified port is set on disable. Set host group security to enable and then try again.
DMEA001097	0x00000504	The function cannot be executed because host group 0 is specified. Specify other than host group 0 and try again.
DMEA001098	0x00000505	The specified host group name or WWN name is invalid. Confirm the name and try again.
DMEA001099	0x00000506	The specified host group number is invalid. Confirm the number and try again.
DMEA001100	0x00000507	The specified node name is invalid. Confirm the name and try again.
DMEA001101	0x00000508	The specified port name is invalid. Confirm the name and try again.
DMEA001102	0x00000509	The parameter for LUN Manager Information or the item name is invalid.
DMEA001103	0x0000050A	The same host group name exists in a port. Confirm the setting file and then try again.
DMEA001104	0x0000050B	The same WWN name exists in a port. Confirm the setting file and then try again.
DMEA001105	0x0000050C	The same port name exists in a port. Confirm the setting file and then try again.
DMEA001106	0x0000050D	The same host group number exists in a port. Confirm the setting file and then try again.
DMEA001107	0x0000050E	The information of the host group number 0 is not in a setting file. Confirm the information on the host group number 0 for every port and then try again.
DMEA001108	0x00000520	The specified Web Title is invalid. Confirm the Web Title and try again.
DMEA001109	0x00000510	In the installed firmware revision, a setup of the Read Frame Min 128 Byte Mode cannot be performed. Please update to the firmware which can set up the Read Frame Min 128 Byte Mode.
DMEA00110A	0x00000521	The process cannot be performed because the firmware on the subsystem does not support the function.
DMEA00110B	0x00000522	There is no parameter to change the data pool information.
DMEA00110C	0x00000531	The specified RAID groups and logical units cannot be created because the drive type is different.
DMEA00110D	0x00000511	The parameter for Options or the item name is invalid.
DMEA00110E	0x00000512	The process cannot be performed because the specified RAID level is not supported.
DMEA00110F	0x00000513	The system LU configuration data is invalid.
DMEA001110	0x00000514	The user LU configuration data is invalid.
DMEA00112A	0x00000530	The hardware configuration of the subsystem differs from the configuration in the input file. Confirm the subsystem status and try again.
DMEA00112B	0x00000130	The specified port is not available because it is physically unequipped. Confirm the port status and try again.
DMEA00112C	0x00000540	In the installed firmware revision, a setup of the HostSystemConfiguration cannot be performed. Please update to the firmware which can set up the HostSystemConfiguration.
DMEA00112D	0x00000541	The parameter for HostSystemConfiguration or the item name is invalid.
DMEA00112E	0x00000542	The process cannot be performed because the attribute is not Read/Write. Please change the attribute to Read/Write and then try again.
DMEA00112F	0x00000543	The specified LU is not set retention term. Confirm the LU status.
DMEA001130	0x00000303	The specified RAID group is already defined. Specify a new RAID group.
DMEA001131	0x00000304	The specified RAID group is not defined. Specify a defined RAID group.
DMEA001132	0x0000011C	Failed to create a file. Confirm the execution environment.
DMEA001133	0x0000011D	The file cannot be outputted. Because the performance statistics acquisition failed.
DMEA001134	0x00000544	The retention term cannot be shortened. Specify the retention term is equal to or more than current value and try again.
DMEA001135	0x00001010	The ENC firmware download and replacement cannot be performed in the single-controller system.
DMEA001136	0x00001011	The directory for storing the ENC firmware cannot be created. Please check the permission of the install directory.
DMEA001137	0x00001012	The ENC firmware cannot be read. Please check the permission and available capacity of the install directory.
DMEA001138	0x00001013	The ENC firmware is not read.
DMEA001139	0x00001014	The ENC firmware of the specified subsystem is not read.
DMEA001140	0x00001015	The ENC firmware in the specified path does not exist. Please confirm whether the ENC firmware is stored in the path or the specified path is right.
DMEA001141	0x00001016	The ENC firmware cannot be read. Please confirm the file and then try again.

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DMEA001142	0x00001017	The contents of the ENC firmware are invalid. Please confirm the file and then try again.
DMEA001143	0x00001018	Incorrect character in the group name.
DMEA001144	0x00001019	Incorrect character in the array unit name.
DMEA001145	0x0000101A	The character length of the array unit name or group name is incorrect.
DMEA001146	0x00000551	The specified path name of the directory for storing the management file is over 250 characters, or there is not sufficient memory. Please specify the pass name of 250 or less characters, or terminate other programs and then try again.
DMEA001147	0x00000552	The directory for storing the management file cannot be created. Please check the permission and available capacity of the directory.
DMEA001148	0x00000554	The specified path name for storing the management file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA001149	0x00000555	Failed to write the management file. Please check the permission and available capacity of the directory.
DMEA00114A	0x00000556	Failed to open the management file. Confirm the file name and then try again.
DMEA00114B	0x00000557	The contents of the management file are invalid. Confirm the file and then try again.
DMEA00114C	0x00000558	The specified path name for the file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA00114D	0x00000559	Failed to write the file. Please check the permission and available capacity of the directory.
DMEA00114E	0x0000055A	Failed to open the file. Confirm the file name and then try again.
DMEA001150	0x0000055C	The specified time of output CSV file is incorrect.
DMEA001151	0x0000055D	The specified path name for storing the CSV file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA001152	0x0000055E	Failed to write the CSV file. Please check the permission and available capacity of the directory.
DMEA001153	0x0000055F	Failed to open the CSV file. Confirm the file name and then try again.
DMEA001154	0x00000560	The specified path name of the directory for storing the CSV file is over 250 characters, or there is not sufficient memory. Please specify the pass name of 250 or less characters, or terminate other programs and then try again.
DMEA001155	0x00000561	The specified path name for the management file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA001156	0x00000562	The specified path name of the deletion file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA001157	0x00000563	The monitoring data cannot be read because the data version is new. Confirm the version of this program and then try again.
DMEA001158	0x00000564	The specified number of output CSV file is incorrect.
DMEA001159	0x00000600	The process cannot be performed because the mapping guard LU exists.
DMEA00115A	0x00000565	Failed to open the management file. Confirm the file name and then try again.
DMEA00115B	0x00000567	The contents of the management file are invalid. Confirm the file and then try again.
DMEA00115C	0x00000570	Failed to connection. Confirm the connection and then try again.
DMEA00115D	0x00000571	A response without subsystem was received. Confirm the connection and then try again.
DMEA00115E	0x00000305	The process cannot be performed because there is not free area in the specified RAID group.
DMEA001160	0x00000306	The logical unit cannot be defined in the specified area.
DMEA001161	0x00000307	The process cannot be performed because the logical unit is already defined in the first area of the specified RAID group.
DMEA001162	0x00000308	The process cannot be performed because there is not free area in the specified area.
DMEA001163	0x00000572	The value received from the subsystem is invalid.
DMEA001164	0x00000580	The specified IP address is incorrect. Please specify a right IP address.
DMEA001165	0x00000581	The specified subnet mask is incorrect. Please specify a right subnet mask.
DMEA001166	0x00000582	The specified default gateway address is incorrect. Please specify a right default gateway address.
DMEA001167	0x00001020	The information can not be set because the Environment Setting File is over 4096 Bytes. Please confirm the specified file.

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Message code	Error code	Message text/Recovery methods
DMEA001168	0x00001021	The information can not be set because the Array Unit Name Setting File is over 255 Bytes. Please confirm the specified file.
DMEA001169	0x00001030	The process cannot be performed because the term of the temporary key or emergency key is expired.
DMEA001170	0x0000101B	The character length of the serial number is incorrect.
DMEA001171	0x00001040	The contents of the license key file are invalid. Please confirm the file and then try again.
DMEA001172	0x00001041	The contents of the license key file are invalid. Please confirm the file and then try again.
DMEA001173	0x00001042	The process cannot be performed because the number of license key is over 50. Please confirm the file and then try again.
DMEA001175	0x00001043	Could not finish replacing the firmware. Please see if there are any alarms or warnings in the subsystem.
DMEA001176	0x00001044	The process cannot be performed because NNC is physically unequipped. Confirm the NNC status and try again.
DMEA001177	0x00001045	The specified NNC cannot be performed because it is physically unequipped or unconnectable. Please confirm the NNC status and try again.
DMEA001178	0x00001060	The specified application program does not exist. Please confirm whether the specified application program is stored.
DMEA001179	0x00001061	Failed to start the specified application program. Confirm the path to the specified application and the operational environment.
DMEA00117A	0x0000105A	The contents of the NNC BIOS firmware are invalid. Please confirm the file and then try again.
DMEA00117B	0x00001059	The NNC BIOS firmware is not read.
DMEA00117C	0x00001058	The directory for storing the NNC BIOS firmware cannot be created. Please check the permission of the install directory.
DMEA00117D	0x00001057	The NNC BIOS firmware in the specified path does not exist. Please confirm whether the NNC BIOS firmware is stored in the path or the specified path is right.
DMEA00117E	0x00001056	The NNC BIOS firmware cannot be read. Please check the permission and available capacity of the install directory.
DMEA00117F	0x00001046	The process cannot be performed because Fibre Channel Port is physically unequipped. Confirm the subsystem status and try again.
DMEA001180	0x00001047	The process cannot be performed because the same address is specified as the NTP server 1 and the NTP server 2. Specify the different address and try again.
DMEA001181	0x0000105B	The process cannot be performed because the controller of the NNC is not registered. Register the controller of the NNC and then try again.
DMEA001182	0x0000105C	The process cannot be performed because the connection with controller of the NNC failed. Confirm the subsystem status and the LAN environment, and then try again.
DMEA001183	0x00001065	The function cannot be executed because some port is invalid or unequipped. Please confirm the subsystem.
DMEA001184	0x00001070	The process cannot be performed because the port is not connected to the maintenance port. Please confirm the port of connection and try again.
DMEA001185	0x00001071	The process cannot be performed because the port is not connected to the management LAN. Please confirm the port of connection and try again.
DMEA001186	0x00001075	The process cannot be performed because iSCSI port is physically unequipped. Please confirm the subsystem status and try again.
DMEA001187	0x00001076	The specified target is already defined. Please confirm the name or number and specify a new target.
DMEA001188	0x00001077	The specified target is not defined. Please confirm the name or number and specify a defined target.
DMEA001189	0x00001078	The function cannot be executed because Target 0 is specified. Please specify other than target 0 and try again.
DMEA001190	0x00001079	The specified alias is invalid. Please confirm alias and try again.
DMEA001191	0x00001080	The specified initiator name is invalid. Please confirm initiator name and try again.
DMEA001192	0x00001081	The specified iSCSI name is invalid. Please confirm iSCSI name and try again.
DMEA001193	0x00001082	The specified user name is invalid. Please confirm user name and try again.
DMEA001194	0x00001083	The specified secret is invalid. Please confirm secret and try again.
DMEA001195	0x00000515	The parameter for Port or the item name is invalid.

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Message code	Error code	Message text/Recovery methods
DMEA001196	0x00000517	The specified KeepAliveTimer value is invalid. Confirm the value and try again.
DMEA001197	0x00000516	The parameter for iSCSIPortInformation or the item name is invalid.
DMEA001198	0x00000518	The parameter for iSNS Information or the item name is invalid.
DMEA001199	0x00000519	The specified Port number is invalid. Confirm the number and try again.
DMEA00119A	0x0000051B	The specified Target number is invalid. Confirm the number and try again.
DMEA00119B	0x0000051A	The parameter for TargetInformation or the item name is invalid.
DMEA00119C	0x0000051C	The same Target number exists in a port. Confirm the setting file and then try again.
DMEA00119D	0x0000051D	The parameter for Target Security or the item name is invalid.
DMEA00119E	0x0000051E	The parameter for Initiator or the item name is invalid.
DMEA00119F	0x00000440	There is no file version.
DMEA0011A0	0x00000441	There is no start separator.
DMEA0011A1	0x00000442	The user name is invalid.
DMEA0011A2	0x00000443	The secret is invalid.
DMEA0011A3	0x00000444	The alias is invalid.
DMEA0011A4	0x00000445	The number of target is invalid.
DMEA0011A5	0x00000446	There is no end separator.
DMEA0011A6	0x00000447	There is no port separator.
DMEA0011A7	0x0000051F	The information of the target number 0 is not in a setting file. Confirm the information on the target number 0 for every port and then try again.
DMEA0011A8	0x00000532	The same alias exists in a port. Confirm the setting file and then try again.
DMEA0011A9	0x00000533	The same iSCSI Name exists in a port. Confirm the setting file and then try again.
DMEA0011AA	0x00000534	The same Initiator Name exists in a port. Confirm the setting file and then try again.
DMEA0011AB	0x00000535	The specified MTU value is invalid. Confirm the value and try again.
DMEA0011AC	0x00000448	The file version is invalid.
DMEA0011AD	0x00000449	The user name reach the maximum.
DMEA0011AE	0x0000044A	The target is not defined.
DMEA0011AF	0x00000536	The parameter for TargetOption or the item name is invalid.
DMEA0011B0	0x00001072	The process cannot be performed because fibre channel port and iSCSI port are physically unequipped. Please confirm the port type and the subsystem status, and try again.
DMEA0011B1	0x00000590	The specified path name for storing the log file is over 255 characters. Please specify the pass name of 255 or less characters and then try again.
DMEA0011B2	0x00000591	The path name for storing the log file is over 255 characters. Please specify the pass name and then try again.
DMEA0011B3	0x00000593	Failed to write the log file. Please check the permission and available capacity of the directory.
DMEA0011B4	0x00000594	The internal log is empty.
DMEA0011B5	0x00000583	The User LAN Parameter Header is invalid.
DMEA0011B6	0x00000584	The CTL Parameter Header is invalid.
DMEA0011B7	0x00000585	The parameter for User LAN Parameter or the item name is invalid.
DMEA0011B8	0x00000586	The Maintenance LAN Parameter Header is invalid.
DMEA0011B9	0x00000587	The parameter for Maintenance LAN Parameter or the item name is invalid.
DMEA0011BA	0x00000588	The process cannot be performed because NNC is equipped. Please confirm the port type and try again.
DMEA0011BB	0x00000589	The process cannot be performed because the DHCP setting is different between the subsystem and input file. Please confirm the DHCP setting and try again.
DMEA0011BC	0x0000058A	The process cannot be performed because the DHCP is enabled. Please set the DHCP to disable and try again.
DMEA0011BD	0x0000058B	The process cannot be performed because the User LAN port of subsystem is being used by other applications. Refer to [netstat.X.Y.inf](X:Serial Number, Y:Date) file in the directory where Navigator is installed, close applications using User LAN port of subsystem, and then try again.
DMEA0011BE	0x00001084	The process cannot be performed because the owner ID is different. Please split the pair using the application that created the pair.

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DMEA002000	0x00002000	Rebooting might have failed, because an error occurred while communicating with the subsystem. Please reboot once again.
DMEA002001	0x00002001	The specified password is invalid. Please confirm the password and try again.
DMEA002002	0x00002002	The process cannot be performed because account is disabled. Please confirm the account status and try again.
DMEA002003	0x00002003	The process cannot be performed because the number of mapping for this port will reach the maximum. Please delete unnecessary mapping and try again.
DMEA002004	0x00002004	The specified group does not exist. Please specify a exist group.
DMEA002005	0x00002005	The specified pair is not defined. Please specify a defined pair.
DMEA002006	0x00002006	The specified pair is not defined in the specified group. Please confirm the pair definition and try again.
DMEA002007	0x00002007	The specified pair is not defined or is not P-VOL in the self subsystem. When a pair is defined, please try again by connected subsystem.
DMEA002008	0x00002008	The invalid character is specified in group name. Please confirm the group name.
DMEA002009	0x00002009	The invalid character is specified in pair name. Please confirm the pair name.
DMEA00200A	0x0000200A	The invalid character is specified in split string. Please confirm the split string.
DMEA00200B	0x0000200B	The specified group does not have the pair. Please specify a exist group.
DMEA00200C	0x0000200C	The requested operation cannot not be finished. Confirm the subsystem status and the LAN environment, and then try again.
DMEA00200D	0x0000200D	The specified pair is not defined or is not S-VOL in the self subsystem. When a pair is defined, please try again by connected subsystem.
DMEA00200E	0x0000200E	Hitachi Storage Navigator Modular 2 is less than Ver.6.50.
		Could not finish replacing the firmware. To complete replacing the firmware, power OFF and then power ON the subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.6.50 or more.
		Could not finish replacing the firmware. Confirm the subsystem status and the LAN environment, and then try again only the updating. Please try it again at least three times until complete it normally. If you cannot totally complete it normally, power OFF and then power ON the subsystem.
DMEA00200F	0x0000200F	The process cannot be performed because the pair attribute that cannot operate. Please confirm the pair definition and try again.
DMEA002010	0x00002010	The process cannot be performed because the pair attribute that cannot operate. Please confirm the pair definition and try again.
DMEA002011	0x00002011	The process cannot be performed because the certificate file size is invalid. Please confirm the certificate file size and try again.
DMEA002012	0x00002012	The process cannot be performed because the specified battery count is outside the effective range. Please confirm the battery count.
DMEA002013	0x00002013	The initialization of configuration information might have failed, because an error occurred in the communication with the subsystem. Please initialize configuration information once again.
DMEA002014	0x00002014	Failed to initialization of configuration information.
DMEA002015	0x00002015	The subsystem cannot initialize configuration information.
DMEA002016	0x00002016	The process cannot be performed because the connection with controller 0 failed. Confirm the subsystem status and the LAN environment, and then try again.
DMEA002017	0x00002017	The process cannot be performed because the connection with controller 1 failed. Confirm the subsystem status and the LAN environment, and then try again.
DMEA002018	0x00002018	The registered information does not match the status of the subsystem. Correct the information to match the status of the subsystem and then try again.
DMEA002019	0x00002019	The specified IP address is incorrect, or it failed in the name resolution of the host name. Please confirm the connection and then try again.

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DMEA00201A	0x0000201A	The protocol version of IP address or the host name specified for controller 0 and controller 1 do not match. Please confirm the connection and then try again.
DMEA00201B	0x0000201B	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		The process cannot be performed because the split without executing the copy. Please make a pair, and please split after a copy is completed.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.
		The automatic split immediately after the pair creation and the copying from the S-VOL to the P-VOL after the pair creation cannot be specified at a time. Please confirm the operation and try again.
DMEA00201C	0x0000201C	The specified IP address is incorrect. Please specify a right IP address.
DMEA00201D	0x0000201D	The specified default gateway address is incorrect. Please specify a right default gateway address.
DMEA00201E	0x0000201E	The automatic split immediately after the pair creation cannot be specified to the pair which belongs to the group. Please confirm the operation and try again.
DMEA00201F	0x0000201F	Two or more remote array ID cannot be changed. Please confirm the operation and try again.
DMEA002020	0x00002020	The specified remote path name is not defined. Please specify a defined remote path name.
DMEA002021	0x00002021	The invalid character is specified in remote path name. Please confirm the remote path name.
DMEA002022	0x00002022	The specified serial number or array ID does not exist. Please specify a right serial number or array ID.
DMEA002023	0x00002023	There is no remote array ID for change. Please confirm the operation and try again.
DMEA002024	0x00002024	The process cannot be performed because DC power supply is physically unequipped. Please confirm the subsystem status and try again.
DMEA002025	0x00002025	The process cannot be performed because the number of registered subsystems is over the maximum. Please delete unnecessary information and then try again.
DMEA002026	0x00002026	The process cannot be performed because the specified parameter is not supported. Please confirm the operation and try again.
DMEA002027	0x00002027	The specified file name for storing the CSV file is over 50 characters. Please specify the file name of 50 or less characters and then try again.
DMEA002028	0x00002028	The specified RAID group is already defined or used by DP pool. Please specify a new RAID group.
DMEA002029	0x00002029	Built-in account could not be set as an account for error monitoring. Please specify another user ID.
DMEA00202A	0x0000202A	The specified Shared Secret is incorrect. Please confirm the Shared Secret and try again.
DMEA00202B	0x0000202B	The DM-LU cannot be mapped. Confirm the setting file and then try again.
DMEA00202C	0x0000202C	The directory does not exist. Please confirm the directory and then try again.
DMEA00202D	0x0000202D	The shutdown might have failed, because an error occurred while communicating with the subsystem. Please try again.
DMEA00202E	0x0000202E	The specified character is incorrect. Please confirm the character and try again.
DMEA00202F	0x0000202F	The SATA Write & Compare Option Separator is invalid. Please confirm the file and then try again.
DMEA002030	0x00002030	The parameter for SATA Write & Compare or the item name is invalid. Please confirm the file and then try again.
DMEA002031	0x00002031	The DP Pool Header is invalid. Please confirm the file and then try again.
DMEA002032	0x00002032	The DP Pool configuration data is invalid. Please confirm the file and then try again.
DMEA002033	0x00002033	The DP RAID group Header is invalid. Please confirm the file and then try again.
DMEA002034	0x00002034	The DP RAID group configuration data is invalid. Please confirm the file and then try again.
DMEA002035	0x00002035	The DP RAID group configuration data is invalid. Please confirm the file and then try again.
DMEA002036	0x00002036	Secure communication was not ready. Please retry after a while.
DMEA002037	0x00002037	The session information was not able to be acquired. Please confirm the operation and try again.
DMEA002038	0x00002038	The output of the Event Log failed. Please confirm the operation and try again.
DMEA002039	0x00002039	Cannot specify the parameter for this subsystem in the DP Pool configuration data. Please confirm the file and then try again.
DMEA00203A	0x0000203A	The specified path name for backing up a master authentication key file is over 250 characters. Please specify the pass name of 250 or less characters and then try again.
DMEA00203B	0x0000203B	There is no master authentication key refresh number. Please confirm specified value, and try again.
DMEA00203C	0x0000203C	Failed to write the file. Please check the permission and available capacity of the directory.

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Message code	Error code	Message text/Recovery methods
DMEA00203D	0x0000203D	Failed to open the file. Confirm the file name and then try again.
DMEA00203E	0x0000203E	Failed to write the file, because the directory of the same name as the backing up a master authentication key file exists. Please change the directory name and then try again.
DMEA00203F	0x0000203F	The file cannot be read because there are a lot of ENC firmwares. Please confirm the file and then try again.
DMEA002044	0x00002044	The process cannot be performed because the LUN Manager is not installed, locked, or disabled. Please install the LUN Manager and then try again.
DMEA002045	0x00002045	The process cannot be performed because the LUN Manager is installed. Please change LUN Manager to de-installed, locked, or disabled and then try again.
DMEA900032	0x00900032	The backup by append write was not normally accepted. Please retry after a while.
DMEA900033	0x00900033	The data set number is doubled.
DMEA900034	0x00900034	The data set detail information is invalid.

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Message code	Error code	Message text/Recovery methods
DMEC002000	–	Cannot write the directory specified STONAVM_HOME.
DMEC002003	0x0000A004	Essential option/parameter not enough.
DMEC002006	0x0000A010	No entry.
DMEC002015	0x0000A011	No information displayed.
DMEC002016	0x0000A00F	Illegal option set.
DMEC002017	0x0000A012	Cannot execute the command for the array unit of current firmware revision.
DMEC002018	0x0000A01C	Could not execute the function, because the array unit does not support the password protection function.
DMEC002019	0x0000A013	No array units registered for error alert.
DMEC002020	0x0000A014	Cannot add Send to address, because 20 addresses are already defined.
DMEC002021	0x0000A015	The function cannot be executed because option is locked, or disabled.
DMEC002022	0x0000A016	The function cannot be executed because the target mode of connected controller is not M-TID,M-LUN.
DMEC002023	0x0000A017	The additional information was not registered to the specified subsystem.
DMEC002024	0x0000A018	The specified RAID group cannot be deleted because it contains an already defined LU.
DMEC002025	0x0000A019	Cannot delete the logical unit, because no logical units defined.
DMEC002026	0x0000A01A	Failed to open the manual file.
DMEC002027	0x0000A01B	The specified drive is not defined.
DMEC002028	0x0000A01C	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		Cannot use this command for the specified device.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.
		This command is not available for the product type specified.
DMEC002029	0x0000A01D	Cannot use this function for the specified device of this configuration.
DMEC002030	0x0000A01E	The function cannot be executed because mapping mode is off.
DMEC002031	0x0000A01F	Insufficient memory. Terminate other programs and then try again.
DMEC002032	0x0000A020	The specified port is not available because its host group security is disabled. Enable the host group security and try again.
DMEC002033	0x0000A021	The specified host group is already defined. Try with another name or number.
DMEC002034	0x0000A022	The specified host group is not defined. Confirm the name or number, and specify a defined host group.
DMEC002035	0x0000A023	The specified WWN name is already defined. Specify a new WWN name.
DMEC002036	0x0000A024	The specified WWN is not defined. Specify a defined WWN.
DMEC002037	0x0000A026	The specified WWN is already assigned to a host group. Specify a WWN that is not assigned to any of the host groups.
DMEC002038	0x0000A027	The specified WWN is not assigned to any of the host groups. Specify a WWN that is already assigned to a host group.
DMEC002039	0x0000A029	The number of registered WWNs reached the maximum. Delete unnecessary information and then try again.
DMEC002040	0x0000A028	The number of registered host group reached the maximum. Delete unnecessary information and then try again.
DMEC002041	0x0000A030	The specified WWN has not been logged in. Specify a WWN that is logged in.
DMEC002042	0x0000A031	The function cannot be executed because host group 0 is specified. Specify except host group 0 and try again.
DMEC002043	0x0000A032	The specified port name is already defined. Specify a new port name.
DMEC002044	0x0000A033	No option entry.
DMEC002045	0x0000A034	The number of defined logical unit reached the maximum. Delete unnecessary logical units and then try again.
DMEC002046	0x0000A035	The specified logical unit capacity is not reallocated.
DMEC002047	0x0000A036	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The specified logical unit number is already defined. Specify a new logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		Specified logical unit number is already defined. Specify a different logical unit number
DMEC002048	0x0000A037	The specified logical unit is not defined. Specify a defined logical unit.
DMEC002049	0x0000A038	The function cannot be executed because the password protection function is enabled.
DMEC002050	0x0000A039	The function cannot be executed because the format mode is not queue.

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Message code	Error code	Message text/Recovery methods
DMEC002051	0x0000A040	The specified logical unit(s) contain sub logical unit. Confirm the logical unit status and try again.
DMEC002052	0x0000A041	The specified logical unit(s) contain invalid logical unit. Confirm the logical unit status and try again.
DMEC002053	0x0000A042	The information on the specified logical unit cannot be displayed.
DMEC002054	0x0000A043	The number of logical units have reached the maximum. Delete unnecessary logical units and then try again.
DMEC002055	0x0000A044	The specified logical unit is not a Snapshot image. Specify a Snapshot image.
DMEC002056	0x0000A045	The process cannot be performed because the number of logical units in the data pool reached the maximum. Delete unnecessary logical units and then try again.
DMEC002057	0x0000A046	The data pool cannot be used. Please restart the subsystem.
DMEC002058	0x0000A047	The process cannot be performed because no logical units is in the data pool. Add a logical unit to the data pool and try again.
DMEC002059	0x0000A048	When changing the attribute to Read/Write, the retention term cannot be specified.
DMEC002060	0x0000A049	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The process cannot be performed because there are some uncorrected logical units. Start or skip parity correction and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The process cannot be performed because there are some uncorrected logical units. Start or skip parity correction and try again. When specified logical units are uncorrected, start parity correction and try again.
DMEC002061	0x0000A04A	Cannot execute the option for the array unit of current firmware revision.
DMEC002062	0x0000A04B	The specified logical unit number is already defined as a command device. Specify another logical unit number.
DMEC002063	0x0000A04C	The command device is not registered. Register the command device and try again.
DMEC002064	0x0000A04D	The process cannot be performed because the Multiple Stream Mode of system parameter is disabled. Please set the Multiple Stream Mode to enable then try again.
DMEC002065	0x0000A04E	The specified logical unit number is not defined as a command device. Specify a logical unit that is already defined to a command device.
DMEC002066	0x0000A04F	The Cache Residency function cannot be used because it is not installed, locked, or disabled.
DMEC002067	0x0000A050	The specified RAID group is not defined. Specify a defined RAID group.
DMEC002068	0x0000A051	The logical unit cannot be created because there is not free area in the specified RAID group.
DMEC002069	0x0000A052	The logical unit cannot be created because the specified area does not exist. Confirm the free area of the RAID group, and try again.
DMEC002070	0x0000A053	The number of registered subsystems has reached the maximum. Delete unnecessary information and then try again.
DMEC002071	0x0000A054	The number of spare drives reach the maximum. Confirm the specified spare drives, and try again.
DMEC002072	0x0000A055	The number of DM-LU have reached the maximum. Release unnecessary DM-LU and then try again.
DMEC002073	0x0000A056	The specified logical unit number is not defined as a DM-LU. Specify a logical unit that is already defined to a DM-LU.
DMEC002074	0x0000A057	The specified logical unit is not Main logical unit. Specify a Main logical unit.
DMEC002075	0x0000A058	The manual file of specified command is not found.
DMEC002076	0x0000A059	The number of spare drives have reached the maximum. Delete unnecessary spare drives and then try again.
DMEC002077	0x0000A05A	The logical units are undefined. Please confirm logical units definition and try again.
DMEC002078	0x0000A05B	The RAID groups are undefined. Please confirm RAID groups definition and try again.
DMEC002079	0x0000A104	The number of cache partition have reached the maximum. Delete unnecessary cache partition and then try again.
DMEC002080	0x0000A105	The CTL0 cannot be specified because the cache partition to set up is not deleted. When specifying the CTL0, please restart and then try again.
DMEC002081	0x0000A106	The CTL1 cannot be specified because the cache partition to set up is not deleted. When specifying the CTL1, please restart and then try again.
DMEC002082	0x0000A05C	No unlockable option is exists in license key file. Please specify the valid file and try again.
DMEC002083	0x0000A05D	Specify the option is equal to or more than 1.
DMEC002084	0x0000A05E	Cannot execute the command for the array unit of current firmware revision.

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DMEC002086	0x0000A060	The process cannot be performed because the time zone does not have daylight saving time. Please confirm the time zone.
DMEC002087	0x0000A061	The process cannot be performed because NNC is unequipped. Please confirm the port status and try again.
DMEC002088	0x0000A062	The process cannot be performed because all ports are used for NAS. Please confirm the port type and try again.
DMEC002089	0x0000A063	The process cannot be performed because fibre channel port is unequipped. Please confirm the port status and try again.
DMEC002090	0x0000A064	The specified port is NAS port. Please confirm the port type and try again.
DMEC002091	0x0000A065	The specified port is not fibre channel port. Please confirm the port type and try again.
DMEC002092	0x0000A066	The host address cannot be changed. Please specify the same host address as a setting value.
DMEC002093	0x0000A067	The process cannot be performed because the port is not connected the user port. Please confirm the port of connection and try again.
DMEC002094	0x0000A068	The process cannot be performed because the specified H-LUN or LUN is already setted the user LU. Please confirm the setting of user LU and try again.
DMEC002095	0x0000A069	The process cannot be performed because the specified H-LUN or LUN is not setted the user LU or is already setted the another user LU. Please confirm the setting of user LU and try again.
DMEC002096	0x0000A06A	The port is unequipped. Confirm the port status and try again.
DMEC002097	0x0000A06B	Cannot specify the parameter for this array unit.
DMEC002098	0x0000A06C	Cannot execute the option for the array unit of current firmware revision.
DMEC002099	0x0000A06D	The function cannot be executed because some port is invalid or unequipped. Please confirm the subsystem.
DMEC002100	0x0000A100	The specified port is not available because it is physically unequipped. Confirm the port status and try again.
DMEC002101	0x0000A101	The specified LU is not invalid. Specify the invalid LU and try again.
DMEC002102	0x0000A102	The collection of performance statistics information is not started. Please start it.
DMEC002103	0x0000A103	The directory does not exit.
DMEC002104	0x0000A072	The specified target is already defined. Try with another alias or number.
DMEC002105	0x0000A073	The specified iSCSI name is already defined. Specify a new iSCSI name.
DMEC002106	0x0000A074	The specified target is not defined. Confirm the name or numbers, and specify a defined target.
DMEC002107	0x0000A075	The function cannot be executed because target 000 is specified. Specify except target 000 and try again.
DMEC002108	0x0000A076	The specified iSCSI name is not defined. Specify a defined iSCSI name.
DMEC002109	0x0000A077	The specified initiator name is not defined. Specify a defined initiator name.
DMEC002110	0x0000A078	The specified initiator is not defined. Specify a defined initiator.
DMEC002112	0x0000A07A	The specified initiator is not assigned to the target. Please specify already assigned initiator.
DMEC002114	0x0000A07C	The specified initiator name is already defined. Specify a new initiator name.
DMEC002115	0x0000A07D	The number of registered initiators reached the maximum. Delete unnecessary initiator and then try again.
DMEC002116	0x0000A07E	The specified user name is not defined. Specify a defined user name.
DMEC002117	0x0000A07F	The number of registered CHAP users reached the maximum. Delete unnecessary CHAP user and then try again.
DMEC002118	0x0000A080	The specified user name is already defined. Specify a new user name.
DMEC002119	0x0000A081	The specified user name is not defined. Specify a defined user name.
DMEC002120	0x0000A082	The specified target is not assigned to any of the CHAP user. Specify a target that is already assigned to a CHAP user.
DMEC002121	0x0000A083	The process cannot be performed because the specified H-LUN or LUN is not map or is already map to the another H-LUN or LUN. Please confirm the mapping and try again.
DMEC002122	0x0000A084	The process cannot be performed because the specified H-LUN or LUN is already map. Please confirm the mapping and try again.
DMEC002123	0x0000A085	The specified user name is already defined. Specify a new user name.
DMEC002124	0x0000A086	The specified initiator is already assigned. Please specify an initiator that is not assigned.
DMEC002125	0x0000A087	The process cannot be performed because the iSNS server is not used.
DMEC002126	0x0000A088	The process cannot be performed because iSCSI port is unequipped. Please confirm the port type and try again.

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DMEC002127	0x0000A089	The specified port is not iSCSI port. Please confirm the port type and try again.
DMEC002128	0x0000A08A	The specified port is not available because its target security is disabled. Enable the target security and try again.
DMEC002129	0x0000A08B	The number of registered target reached the maximum. Delete unnecessary information and then try again.
DMEC002130	0x0000A08C	The process cannot be performed because the Read Mode is disabled. Please set the Read Mode to enable then try again.
DMEC002131	0x0000A08D	The specified parameter cannot be set because the Read Mode is enabled. Please set the Read Mode to disable then try again.
DMEC002132	0x0000A08E	The process cannot be performed because fibre channel port and iSCSI port are unequipped. Please confirm the port type and try again.
DMEC002133	0x0000A08F	The process cannot be performed because the scope is not the LU.
DMEC002134	0x0000A090	The process cannot be performed because the DHCP is enabled.
DMEC002135	0x0000A091	Failed to open the file. Confirm the file name and then try again.
DMEC002136	0x0000A092	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the IP address of syslog server1 is not defined. Please define the IP address and then try again. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the IP address of syslog server1 is not set. Please set the IP address.
DMEC002137	0x0000A093	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the syslog server transfer is disabled. Please set the syslog server transfer to enable then try again. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the syslog server transfer is disabled. Please set the syslog server transfer to enable.
DMEC002138	0x0000A094	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the syslog server2 is not used. Please set the syslog server2 to used then try again. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the syslog server2 is disabled. Please set the syslog server2 to enable.
DMEC002139	0x0000A095	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the IP address of syslog server2 is not defined. Please define the IP address and then try again. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the IP address of syslog server2 is not set. Please set the IP address.
DMEC002140	0x0000A096	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the option of '-syslogsrv' is disabled. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the syslog server transfer is disabled.
DMEC002141	0x0000A097	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the option of '-srv2' is disabled. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be specified because the syslog server2 is disabled.
DMEC002142	0x0000A098	The specified logical unit cannot be set as the P-VOL of the Volume Migration Pair. Confirm the logical unit status and try again.

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DMEC002147	0x0000A09D	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		You cannot login. Please specify the user ID and password.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		Could not login. Please specify the user ID and password.
DMEC002148	0x0000A09E	The specified user ID is not registered. Please confirm the user ID.
DMEC002149	0x0000A0A0	The user ID is not set.
DMEC002150	0x0000A0A1	Failed to delete the password file.
DMEC002151	0x0000A0A2	The password is too long.
DMEC002152	0x0000A0A3	Failed to get the account information. Please set the account information using auaccountenv command.
DMEC002153	0x0000A0A4	The test cannot be specified because the monitoring account is disabled. Please set the monitoring account to enable.
DMEC002154	0x0000A0A5	The specified unit name is not registered or is not monitoring.
DMEC002155	0x0000A0A6	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The user ID is too long.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The user ID is not set or is too long.
DMEC002156	0x0000A0A7	The user ID is not registered. Please specify the user ID.
DMEC002157	0x0000A0A8	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		You have no permission. Please contact the Account Administrator and confirm your permission.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		You do not have sufficient privileges. Please contact the Account Administrator and confirm your access privileges.
DMEC002158	0x0000A0A9	The user name is too long.
DMEC002159	0x0000A0AA	The iSCSI name is too long.
DMEC002160	0x00002160	The specified NNC configuration is different from the subsystem. Please specify equipped NNC configuration.
DMEC002161	0x00002161	The firmware replacement cannot be performed in the single-controller system. Please retry by dual-controller system.
DMEC002162	0x00002162	The value received from the subsystem is invalid.
DMEC002163	0x00002163	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The specified pair does not exist.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The specified group or pair does not exist.
DMEC002164	0x00002164	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The specified group has no pair.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The specified group is undefined or pair is not defined in the specified group.
DMEC002165	0x00002165	The specified group number and group name do not match.
DMEC002166	0x0000A0B1	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The destination address can be added because the address reached the maximum. Please remove the unnecessary destination address. And try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The destination address can not be added because the address reached the maximum. Please remove the unnecessary destination address. And try again.
DMEC002167	0x0000A0B2	The specified destination address is already set.
DMEC002168	0x0000A0B3	The specified destination address is not set.
DMEC002169	0x0000A0B4	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The destination address can be removed because the address reached the minimum.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The destination address can not be removed because the address reached the minimum.
DMEC002170	0x0000A0B5	The option is required for the array unit of current firmware revision.

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Message code	Error code	Message text/Recovery methods
DMEC002171	0x0000A0B6	The specified group does not exist.
DMEC002172	0x0000A0B7	The specified banner is too long.
DMEC002173	0x0000A0B8	Cannot specify the option for this array unit.
DMEC002174	0x0000A0B9	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The specified drive is already defined as a spare drive, or is already being used in the RAID group.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The specified drive is already defined as a spare drive, or is already being used in the RAID group or DP pool.
DMEC002175	0x0000A0BA	The specified pair of S-VOL is not defined or is not S-VOL in the self subsystem. Please confirm the S-VOL.
DMEC002176	0x0000A0BB	The specified array ID does not exist. Please confirm whether the remote path is set.
DMEC002177	0x0000A0BD	The specified logical unit capacity is the same as current capacity. Please confirm the logical unit capacity.
DMEC002178	0x0000A0BE	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The specified RAID level of RAID group is not supported. Please confirm the RAID level.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The process cannot be performed because RAID group is RAID0. Please confirm RAID level and then try again.
DMEC002179	0x0000A0BF	The number of drives is invalid. Please specify in multiples of 2, when RAID level is RAID1 or RAID1+0.
DMEC002180	0x0000A0C0	The number of drives reach the maximum. Please confirm the number of drives.
DMEC002181	0x0000A0C1	Two or more parameters cannot be specified for the array unit of current firmware revision.
DMEC002182	0x0000A0C2	When shrinking the logical unit, this option cannot specify.
DMEC002183	0x0000A0C3	The process cannot be specified because the IPv6 Setting Mode is auto.
DMEC002184	0x0000A0C4	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The IP address format is invalid. Please confirm the IP address format.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The specified IP address is incorrect. Please specify a right IP address.
DMEC002185	0x0000A0C5	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The logical unit cannot be grown because the specified area does not exist. Confirm the free area of the RAID group, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The free area does not exist. Please delete unnecessary logical units and then try again.
DMEC002186	0x0000A0C6	The IPv4 and IPv6 cannot be specified at the same time.
DMEC002187	0x0000A0C7	The address other than 2 figures of low order in host address. Please specify the same address as a setting value.
DMEC002188	0x0000A0C8	The parameter cannot be specified for the array unit of current firmware revision.
DMEC002189	0x0000A0C9	The RAID Group cannot be expanded because the drive configuration of RAID level is maximum.
DMEC002190	0x0000A0CA	The specified remote path name cannot be used. Please confirm the remote path name.
DMEC002191	0x0000A0CB	The version of CLI and API is mismatch. Please install the navigator again.
DMEC002192	0x0000A0CC	The specified DP pool is not defined. Please specify a defined DP pool.
DMEC002193	0x0000A0CD	When growing or shrinking the logical unit in DP pool, this option cannot be specified.
DMEC002194	0x0000A0CE	The process cannot be performed because external authentication server1 is already set.
DMEC002195	0x0000A0CF	The process cannot be performed because external authentication server2 is already set.
DMEC002196	0x0000A0D0	The process cannot be performed because external authentication server1 is not set.
DMEC002197	0x0000A0D1	The process cannot be performed because external authentication server2 is not set.
DMEC002198	0x0000A0D2	The process cannot be performed because external authentication server1 is not set. Please set server1 and try again.
DMEC002199	0x0000A0D3	The process cannot be performed because external authentication server2 is set. Please confirm external authentication server and try again.
DMEC002200	0x0000A0D4	When the user authentication is Internal, this option cannot be specified.
DMEC002201	0x0000A0D5	When the user authentication is RADIUS, this option cannot be specified.
DMEC002202	0x0000A0D6	The DP pools are undefined. Please confirm DP pools definition and try again.
DMEC002203	0x0000A0D7	The logical unit which does not belong to DP pool cannot be specified.

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Message code	Error code	Message text/Recovery methods
DMEC002204	0x0000A0D8	When growing the logical unit, this option cannot be specified.
DMEC002206	0x0000A0DA	Failed to write the file. Please check the permission and available capacity of the directory.
DMEC002207	0x0000A0DB	An error occurred during the file I/O. Please check the permission and available capacity.
DMEC002208	0x0000A0DC	No information to output.
DMEC002209	0x0000A0DD	The Account Authentication is done lock or disabled.
DMEC002210	0x0000A0DE	The specified subsystem name is not registered.
DMEC002211	0x0000A0DF	The process cannot be performed because the DP Pools exists. Delete the DP Pools and try again.
DMEC002212	0x0000A0E0	The specified environment variable is incorrect. Please confirm the environment variable STONAVM_ACT_SCRIPT.
DMEC002213	0x0000A0E1	You have no permission to modify. Terminate execution.
DMEC002214	0x0000A0E2	The input error occurred.
DMEC002215	0x0000A0E3	Cannot specify the option for this OS.
DMEC002216	0x0000A0E4	The session information executing the script cannot be used. Please end using -finish option of auaccountscript command.
DMEC002217	0x0000A0E5	You cannot display because Type, Serial Number and H/W Revision are different between an array unit and the Navigator. Remove the specified array unit from the registration information and register it again.
DMEC002218	0x0000A0E6	The password is too short.
DMEC002219	0x0000A0E7	The incorrect character is contained in the password.
DMEC002220	0x0000A0E8	The incorrect character is contained in the backup file name.
DMEC002221	0x0000A0E9	The same file name cannot be specified as a password file and a backup file.
DMEC002222	0x0000A0EA	The character string which cannot be specified as a password file name is contained.
DMEC002233	0x0000A0F5	The link local IP address cannot be specified because the link local IP address type is automatic or it is set to automatic at a time.
DMEC002234	0x0000A0F6	The global IP address cannot be specified because the global IP address type is automatic or it is set to automatic at a time.
DMEC002235	0x0000A0F7	This option cannot be specified because the IPv6 status is disabled.
DMEC002241	0x0000A0FD	The license key file has unjust contents. Please specify the valid file and try again.
DMEC002242	0x0000A0FF	Cannot execute the option for interface board.
DMEC00A208	0x0000A208	Cannot display the backup group information, because the specified tape group is already backed up by append write.
DMEC00A209	0x0000A209	Cannot display the backup group information, because the full backup tape group of the specified tape group is already backed up by append write.
DMEC00A210	0x0000A210	The process cannot be performed because data set information is insufficient.

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Message code	Error code	Message text/Recovery methods
DMED010001	0x03010001	The same host group name exists in a port. Confirm the host group name and then try again.
DMED010002	0x03010002	The same WWN name exists in a port. Confirm the WWN name and then try again.
DMED010003	0x03010003	WWN cannot be assigned to an undefined host group. Specify a defined host group and try again.
DMED010004	0x03010004	The function cannot be executed because host group security on some port is set to enabled. Set host group security to disable on all ports and try again.
DMED010005	0x03010005	The process cannot be performed because the target security on some port is set to enabled. Please set the target security to disable on all ports and try again.
DMED010006	0x03010006	The process cannot be performed because the specified name is default name of host group 0. Please confirm the name and try again.
DMED020001	0x03020001	The value of Dirty Data Opportunity is outside the effective range. Specify the value in the effective range and try again.
DMED020002	0x03020002	The value of Dirty Data Stop Opportunity is outside the effective range. Specify the value in the effective range and try again.
DMED020003	0x03020003	The value of Dirty Data Opportunity is equal to or less than value of Dirty Data Stop Opportunity. Specify the value and try again.
DMED020004	0x03020004	Prefetch Starting Opportunity is outside the effective range. Specify the value of effective range and try again.
DMED020005	0x03020005	LU number is outside the effective range. Specify the LU number of effective range and try again.
DMED020006	0x03020006	Reserved Random Simple Buffer Size is outside the effective range. Specify the value of effective range and try again.
DMED020007	0x03020007	The process failed due to an invalid parameter of Random Simple Buffer Size 0% Mode. Confirm the specified parameter.
DMED020008	0x03020008	Prefetch Count is outside the effective range. Specify the value in the effective range and try again.
DMED020009	0x03020009	Prefetch Size is outside the effective range. Specify the value in the effective range and try again.
DMED02000A	0x0302000A	The process failed due to an invalid parameter of Next Prefetch Opportunity Mode. Confirm the specified parameter.
DMED02000B	0x0302000B	The process cannot be performed because the Multiple Stream Mode of system parameter is disabled. Please set the Multiple Stream Mode to enable then try again.
DMED020010	0x03020010	Count of Judgment Sequential is outside the effective range. Specify the value in the effective range and try again.
DMED020011	0x03020011	Prefetch Size of Base is outside the effective range. Specify the value in the effective range and try again.
DMED020012	0x03020012	Prefetch Size of Fixed is outside the effective range. Specify the value in the effective range and try again.
DMED020013	0x03020013	The value of Dirty Data Opportunity is equal to or less than value of Dirty Data Stop Opportunity. Specify the value and try again.
DMED020014	0x03020014	The process cannot be performed because the specified Load Balancing value is outside the effective range. Please set up an effective value.
DMED020015	0x03020015	The process cannot be performed because the specified Load Balancing Monitoring Time is outside the effective range. Please set up an effective value.
DMED030001	0x03030001	The specified LU is already invalid. Confirm the LU status and try again.
DMED030002	0x03030002	The number of LU reached the maximum. Delete unnecessary LUs and try again.
DMED030003	0x03030003	The specified LU is not invalid. Specify the invalid LU and try again.
DMED030004	0x03030004	The specified LU capacity is equal to or more than the capacity of original LU. Confirm the LU capacity and try again.
DMED030006	0x03030006	The specified LU is not invalid. Specify the invalid LU and try again.
DMED030007	0x03030007	The specified LU is unformatted. Specify a formatted LU and try again.
DMED030008	0x03030008	The number of LU reached the maximum. Delete unnecessary LUs and try again.
DMED030009	0x03030009	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED03000A	0x0303000A	The specified LU capacity is equal to or less than the minimum capacity of an LU. Specify a larger capacity than the minimum capacity and try again.

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Message code	Error code	Message text/Recovery methods
DMED03000B	0x0303000B	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.
DMED040001	0x03040001	The specified LUs contain Sub LU. Confirm the LU status and try again.
DMED040003	0x03040003	The specified LUs contain regressed or detached LU. Confirm the LU status and try again.
DMED040004	0x03040004	The specified LUs contain an un-mounted drive. Confirm the drive status and try again.
DMED040005	0x03040005	The specified LUs contains an invalid LU. Confirm the LU status and try again.
DMED040006	0x03040006	Someone already logged in. Set password protection function to disabled and try again.
DMED040007	0x03040007	There is no LU entered to format.
DMED040008	0x03040008	Hitachi Storage Navigator Modular 2 is less than Ver.9.75.
		Format of the logical unit cannot be performed under drive blockage mode. Please turn off the drive blockade mode system parameter.
		Hitachi Storage Navigator Modular 2 is Ver.9.75 or more.
		Format of the logical unit cannot be performed under the Drive Detach Mode. Please turn off the Drive Detach Mode of system parameter.
DMED040009	0x03040009	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.
DMED050001	0x03050001	The process cannot be performed, because the specified LU is having PIN data or is in a PIN exceeded state. Restore PIN data and try again.
DMED050002	0x03050002	The process cannot be performed because cache segment is insufficient. Wait for a while and then try again.
DMED050003	0x03050003	The process cannot be performed because the specified LU is receiving the Write command continuously from the host. Wait for a while and then try again.
DMED050004	0x03050004	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED050005	0x03050005	The process cannot be performed because the partition of necessary conditions for LU changing does not exist. Please confirm the partition definition and try again.
DMED050006	0x03050006	The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please retry after changing the cache partition.
DMED050007	0x03050007	The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.
DMED050008	0x03050008	The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.
DMED050009	0x03050009	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The LU change could not be performed.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The time out occurred by the LU changing. Please wait for a while and then try again.
DMED05000A	0x0305000A	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED05000B	0x0305000b	The process cannot be performed because the controller of logical unit partition does not match or the partition number of logical unit is not same. Please specify the logical unit which uses the same controller's partition, or the same partition. When the partition of a logical unit is set as 0 or 1, please set a pair partition as auto.
DMED05000C	0x0305000c	An internal program error occurred. Wait for a while and then try again. If the problem cannot be solved, contact the maintenance personnel.
DMED05000D	0x0305000D	The time out occurred by the LU changing during controller recovery. Please wait for a while and then try again.
DMED05000E	0x0305000E	The process cannot be performed because Remote Replication is in progress. Please retry after replacement completes.

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Message code	Error code	Message text/Recovery methods
DMED05000F	0x0305000F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10. The operation to change the controllers that controls LU cannot be performed because the specified LU is a part of a ShadowImage pair and its pair status is Synchronizing or Reverse Synchronizing. Execute the operation when the pair status is neither Synchronizing nor Reverse Synchronizing. Hitachi Storage Navigator Modular 2 is Ver.6.10 or more. The operation to change the controllers that control logical unit cannot be performed because the status of the ShadowImage pair that the specified logical unit is a part of or the ShadowImage pairs that share the same P-VOL is Synchronizing or Reverse Synchronizing. Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.
DMED050010	0x03050010	The operation to change the controllers that controls LU cannot be performed because the specified LU is a part of a Volume Migration pair and its pair status is COPY. Execute the operation when the pair status is not COPY.
DMED050011	0x03050011	The operation to change the controllers that controls LU cannot be performed because Auto Migration is in progress. Execute the operation after Auto Migration is completed.
DMED050012	0x03050012	The operation to change the controllers that control logical unit cannot be performed because the status of the ShadowImage pair that the specified logical unit is a part of or the ShadowImage pairs that share the same P-VOL is Synchronizing, Reverse Synchronizing, Split Pending or Paired Internally Synchronizing. Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.
DMED070001	0x03070001	Cannot set dual ID success because either mounted numbers or types of the host interface boards are different between controllers. Confirm the interface boards status and try again.
DMED070002	0x03070002	The specified IP address is incorrect. Please specify a right IP address.
DMED070004	0x03070004	The High-speed Sequential Write Mode cannot be disabled because process of Write command from the hosts is not completed. Please wait for a while and then try again, or use the system parameter setting with reboot.
DMED070005	0x03070005	The Multiple Stream Mode and the High-speed Sequential Write Mode cannot be specified at the same time.
DMED070006	0x03070006	When the ShadowImage pair of an S-VOL Switch status exists the ShadowImage I/O Switch Mode cannot be disabled. Please retry after solving the error.
DMED070007	0x03070007	The configuration of single or dual controller system cannot be changed because Cache Partition Manager is enabled. Please change Cache Partition Manager to de-installed or disabled and try again.
DMED070008	0x03070008	The process cannot be performed because the specified port number is outside the effective range. Please confirm the port number.
DMED070009	0x03070009	The port number of other controller cannot be set up. Please confirm the controller number.
DMED070010	0x03070010	The process cannot be performed because the specified secure port number is outside the effective range. Please confirm the secure port number.
DMED070011	0x03070011	The secure port number of other controller cannot be set up. Please confirm the controller number.
DMED070012	0x03070012	The process cannot be performed because the non-secure port and secure port are same port number. Please set the different port number.
DMED070013	0x03070013	The process cannot be performed because the non-secure port status is changed by the non-secure port. Please retry by the secure port.
DMED070014	0x03070014	The process cannot be performed because the port number and the non-secure port status are changed at the same time. Please confirm the operation and try again.
DMED070015	0x03070015	The process cannot be performed because the non-secure port status of other controller is changed. Please confirm the controller number.
DMED070016	0x03070016	The process cannot be performed because the specified port number is reserved. Please set the unreserved port number.
DMED080001	0x03080001	The data pool cannot be used. Please restart the subsystem.
DMED080002	0x03080002	The process cannot be performed because the logical unit under restoration. Wait for a while and try again.
DMED080003	0x03080003	The process cannot be performed because the logical unit added to the data pool is not specified.
DMED080004	0x03080004	The process cannot be performed because the same logical unit number has been specified more than twice. Confirm the logical unit number and try again.

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DMED080005	0x03080005	The specified logical unit number is outside of the effective range. Specify the logical unit number within the range and try again.
DMED080006	0x03080006	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.
		The process cannot be performed because the specified logical unit is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again.
		Hitachi Storage Navigator Modular 2 is Ver.7.20 or more.
		This process cannot be performed. The status of the specified logical unit must be in either normal or regressed state. Please verify the status of the logical unit and try again.
DMED080007	0x03080007	The process cannot be performed because the RAID level or HDU combination of the specified logical unit is not supported. Confirm the RAID level and the HDU combination currently supported and try again.
DMED080008	0x03080008	The process cannot be performed because the number of logical units in the data pool reached the maximum. Delete the logical units in the data pool and then try again.
DMED080009	0x03080009	The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again.
DMED08000A	0x0308000A	The process cannot be performed because the specified logical unit is a part of ShadowImage pair. Cancel the ShadowImage pair and try again.
DMED08000B	0x0308000B	The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.
DMED08000C	0x0308000C	The process cannot be performed because the specified logical unit is a command device. Cancel the command device and try again.
DMED08000D	0x0308000D	The process cannot be performed because the specified logical unit has been invalidated. Restore the logical unit and try again.
DMED08000E	0x0308000E	The process cannot be performed because the specified logical unit is a part of SnapShot pair or a SnapShot logical unit. Cancel the SnapShot pair or specify another logical unit and try again.
DMED08000F	0x0308000F	The process cannot be performed because the specified logical unit is defined as a SnapShot logical unit. Specify another logical unit and try again.
DMED080010	0x03080010	The process cannot be performed because the specified logical unit is added to a data pool. Specify another logical unit and try again.
DMED080012	0x03080012	The process cannot be performed because the owner controller is different between the specified logical unit and the data pool. Confirm the logical unit owner controller and try again.
DMED080013	0x03080013	The process cannot be performed because the specified logical unit has been receiving the Write command continuously from the hosts. Wait for a while and then try again.
DMED080014	0x03080014	The process cannot be performed because there is other logical unit changing the Default Controller. Wait for a while and then try again.
DMED080015	0x03080015	The process cannot be performed because the specified logical unit is in the PIN exceeded state. Restore PIN data and try again.
DMED080016	0x03080016	The process cannot be performed because the specified logical unit is not enough for sufficient cache blocks. Specify another logical unit and try again.
DMED080017	0x03080017	The process cannot be performed because no logical units in data pool.
DMED080018	0x03080018	The process cannot be performed because the Snapshot pair exists in the specified data pool. Cancel the Snapshot pair and try again.
DMED080019	0x03080019	The process cannot be performed because data pool deleted is not specified.
DMED08001A	0x0308001A	The process cannot be performed because the threshold of usage rate in the data pool is not specified.
DMED08001B	0x0308001B	The specified threshold is outside of the effective range. Specify the value of effective range and try again.
DMED08001C	0x0308001C	The process cannot be performed because the specified logical unit is capacity equal to or less than 2GB. Specify the logical unit of bigger capacity than 2GB and try again.
DMED08001D	0x0308001D	The process cannot be performed because S-VOL mode of the specified logical unit is disabled. Set S-VOL mode to enable then try again.
DMED08001F	0x0308001F	The number of specified logical units is over 64. Please specify the logical units in 64 or less.

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DMED080020	0x03080020	The process cannot be performed because the drive type of specified logical unit is different from the data pool. Please confirm the drive type and try again.
DMED080021	0x03080021	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED080022	0x03080022	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED080023	0x03080023	The logical units in the data pool cannot be mixed with ones in Unit0 or in the latter units.
DMED080024	0x03080024	The process cannot be performed because DM-LU is not defined. Please define DM-LU and then try again.
DMED080025	0x03080025	The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please specify another logical unit and try again.
DMED080026	0x03080026	The process cannot be performed because the number of logical units reached the system maximum. Please delete logical units in the data pool and try again.
DMED080027	0x03080027	The process cannot be performed because the number of logical units will reach the system maximum. Please delete logical units in the data pool and try again.
DMED080028	0x03080028	The logical unit in DP pool and a RAID group cannot be mixed to the same data pool. Please confirm the logical unit and then try again.
DMED080029	0x03080029	The process cannot be performed because state of the DP pool which contains the specified logical unit is Detached. Please recover and then try again.
DMED08002A	0x0308002A	The process cannot be performed because the status of DP pool consumed capacity is capacity depleted. Please add DP pool capacity and then try again.
DMED08002B	0x0308002B	The process cannot be performed because the DP pool is being deleted. Please retry after the process completes.
DMED08002C	0x0308002C	The process cannot be performed because the DP pool is being created. Please retry after the process completes.
DMED08002D	0x0308002D	The process cannot be performed because the DP pool capacity is being added. Please retry after the process completes.
DMED08002E	0x0308002E	The process cannot be performed because the DP pool is being recovered. Please retry after the process completes.

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Message code	Error code	Message text/Recovery methods
DMED090001	0x03090001	The logical unit number of specified P-VOL is outside of the effective range. Specify the logical unit number of effective range and try again.
DMED090003	0x03090003	The logical unit number of specified SnapShot logical unit is outside of the effective range. Specify the logical unit number of effective range and try again.
DMED090004	0x03090004	The process cannot be performed because the logical unit number of the SnapShot logical unit created or deleted is not specified.
DMED090005	0x03090005	The process cannot be performed because the same logical unit number has been specified as a SnapShot logical unit more than twice. Confirm the logical unit number and try again.
DMED090006	0x03090006	The process cannot be performed because the specified logical unit of the P-VOL is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again.
DMED090007	0x03090007	The process cannot be performed because no logical unit exists in the data pool by the side of the controller of specified P-VOL. Add the logical unit to the data pool and try again.
DMED090008	0x03090008	The process cannot be performed because the RAID level or HDU combination of the specified logical unit differs from the logical unit is not supported. Confirm the RAID level and the HDU combination currently supported and try again.
DMED090009	0x03090009	The process cannot be performed because the number of created SnapShot logical unit for the specified P-VOL has reached its maximum. Delete unnecessary SnapShot logical unit and try again.
DMED09000A	0x0309000A	The logical unit number has already been defined. Specify a new number.
DMED09000B	0x0309000B	The process cannot be performed because the specified P-VOL is a unified LU. Separate the unified LU and try again.
DMED09000C	0x0309000C	The process cannot be performed because the specified P-VOL is a part of ShadowImage pair. Cancel the ShadowImage pair and try again.
DMED09000D	0x0309000D	The process cannot be performed because the specified P-VOL is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.
DMED09000E	0x0309000E	The process cannot be performed because the specified P-VOL is a part of Snapshot pair. Cancel the Snapshot pair and try again.
DMED09000F	0x0309000F	The process cannot be performed because the specified P-VOL is a command device. Cancel the command device and try again.
DMED090010	0x03090010	The process cannot be performed because the specified P-VOL is invalid. Restore the LU and try again.
DMED090011	0x03090011	The process cannot be performed because the specified P-VOL has already been added to a data pool. Specify another LU number and try again.
DMED090012	0x03090012	The process cannot be performed because the specified P-VOL is not enough for sufficient cache capacity. Check cache capacity and try again.
DMED090013	0x03090013	The process cannot be performed because the HDU combination of the specified P-VOL differs from registered logical units to the data pool. Confirm the HDU combination and try again.
DMED090014	0x03090014	The process cannot be performed because the specified P-VOL has been receiving the Write command continuously from the hosts. Wait for a while and then try again.
DMED090015	0x03090015	The process cannot be performed because there is other logical unit changing the Default Controller. Wait for a while and then try again.
DMED090016	0x03090016	The process cannot be performed because the specified P-VOL is in the PIN exceeded state. Restore PIN data and try again.
DMED090017	0x03090017	The process cannot be performed because the specified P-VOL is not defined. Specify a defined logical unit and try again.
DMED090018	0x03090018	The process cannot be performed because the specified SnapShot logical unit has been creating the pair. Cancel the SnapShot pair and try again.
DMED090019	0x03090019	The process cannot be performed because P-VOL is under deletion. Wait for a while and then try again.
DMED09001A	0x0309001A	The process cannot be performed because the specified set of P-VOL and SnapShot logical unit is not a pair. Confirm the pair status and try again.
DMED09001B	0x0309001B	The process cannot be performed because the number of SnapShot pair reached the maximum. Delete unnecessary SnapShot pair(s) and try again.

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DMED09001C	0x0309001C	The process cannot be performed because the unified LU is composed of 17 or more sub logical units. Specify another logical unit and try again.
DMED09001D	0x0309001D	The process cannot be performed because the unified LU contains a sub logical unit whose size is less than 1GB. Specify another logical unit and try again.
DMED09001E	0x0309001E	The process cannot be performed because a management area of Snapshot is shortage. Delete unnecessary Snapshot pair(s) and try again.
DMED09001F	0x0309001F	The process cannot be performed because the drive type of specified logical unit is different from the V-VOL. Please confirm the drive type and try again.
DMED090020	0x03090020	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED090021	0x03090021	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED090022	0x03090022	The process cannot be performed because the specified SnapShot logical unit is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.
DMED090023	0x03090023	The process cannot be performed because the specified SnapShot logical unit is a part of Hi-Copy pair. Cancel the Hi-Copy pair and try again.
DMED090024	0x03090024	The process cannot be performed because the P-VOL of specified SnapShot logical unit is reserved for cache partition modification. Please retry after cache partition modification is completed.
DMED090025	0x03090025	The process cannot be performed because the specified V-VOL size will exceed the maximum of logical unit size. Please confirm the specified V-VOL size.
DMED090026	0x03090026	The specified logical unit is not V-VOL. Please specify the logical unit number of V-VOL and try again.
DMED0A0001	0x030A0001	The process cannot be performed because the specified LU is invalid. Restore the LU and try again.
DMED0A0002	0x030A0002	The process cannot be performed because the specified LU is a Sub LU of the unifying LUs. Separate the unified LU and try again.
DMED0A0003	0x030A0003	The process cannot be performed because the specified LU is S-VOL of ShadowImage. Specify another logical unit and try again.
DMED0A0004	0x030A0004	The process cannot be performed because the specified LU is S-VOL of Remote Replication. Specify another logical unit and try again.
DMED0A0005	0x030A0005	The process cannot be performed because the specified LU is SnapShot logical unit. Specify another logical unit and try again.
DMED0A0006	0x030A0006	The process cannot be performed in the retention term. The retention term expires and try again.
DMED0A0007	0x030A0007	The process cannot be performed because ShadowImage is in progress. Please wait a moment and then try again.
DMED0A0008	0x030A0008	The process cannot be performed because SnapShot is in progress. Please wait a moment and then try again.
DMED0A0009	0x030A0009	The retention term cannot be shortened. Specify the retention term is equal to or more than current value and try again.
DMED0A000A	0x030A000A	The process cannot be performed because expiration lock is enabled. Set expiration lock to disable and try again.
DMED0A000B	0x030A000B	The process cannot be performed because the status of ShadowImage pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.
DMED0A000C	0x030A000C	The process cannot be performed because the status of Remote Replication pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.
DMED0A000D	0x030A000D	The process cannot be performed because the status of SnapShot pair is not Split(PSUS). Please retry after changing the status of pair.
DMED0A000E	0x030A000E	The process cannot be performed because the status of Remote Replication pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.
DMED0B0001	0x030B0001	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.

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Message code	Error code	Message text/Recovery methods
DMED0C0001	0x030C0001	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED0C0002	0x030C0002	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED0C0003	0x030C0003	The unification cannot be performed because the drive type is different. Please confirm the drive type and try again.
DMED0C0004	0x030C0004	The logical unit in Unit0 cannot be unified with the latter units.
DMED0C0005	0x030C0005	The process cannot be performed because the unified LU reached the maximum.
DMED0C0006	0x030C0006	The unification cannot be performed because the cache partition is different. Please confirm the cache partition of the specified logical unit.
DMED0C0007	0x030C0007	The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please retry after changing the cache partition, or specify another logical unit.
DMED0C0008	0x030C0008	The total count of Main LU and Sub LU is over the maximum. Please specify 128 or fewer LUs.
DMED0D0001	0x030D0001	The process cannot be performed because the access level is set up to ReadOnly or Protect. Please change the attribute to Read/Write, and try again.
DMED0D0002	0x030D0002	The process cannot be performed because the temporary key cannot be used for the next 180 days after it is locked or expired.
DMED0D0003	0x030D0003	The specified function has already been unlocked.
DMED0E0001	0x030E0001	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED0E0002	0x030E0002	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process cannot be performed because the specified logical unit is a unified LU, and belongs to two or more RAID groups. Please separate the unified LU and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process cannot be performed because the unified LU which belongs to two or more RAID groups exists. Please separate the unified LU and try again.
DMED0E0003	0x030E0003	The process cannot be performed because the specified logical unit is a Sub LU. Please specify a Main LU and try again.
DMED0E0004	0x030E0004	The process cannot be performed because the logical units number of the specified RAID group reach the maximum. Please confirm the RAID group and try again.
DMED0E0005	0x030E0005	The process cannot be performed because the specified logical unit is DM-LU. Please specify another logical unit and try again.
DMED0E0006	0x030E0006	The process cannot be performed because the specified logical unit is V-VOL of SnapShot. Please specify the P-VOL and try again.
DMED0E0007	0x030E0007	The logical unit number for free area has already been used. Please specify unused logical unit number.
DMED0E0008	0x030E0008	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The logical unit number for free area is not assigned. Please confirm the specified logical unit number, or do not specify the logical unit number for free area and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.
		The logical unit cannot be created. Please delete unnecessary logical units or specify automatically for free area and then try again.
DMED0E0009	0x030E0009	The logical unit of RAID0 cannot be created by multiple free areas. Please confirm the specified area and then try again.
DMED0E000A	0x030E000A	The free area does not exist. Please delete unnecessary logical units and then try again.

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Message code	Error code	Message text/Recovery methods
DMED0E000B	0x030E000B	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The capacity of specified area is insufficient. Please confirm the capacity and then try again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The capacity of specified area is insufficient or the logical unit number to show the position of the free area is invalid. Please confirm the area and try again.
DMED0E000C	0x030E000C	The capacity of specified area is insufficient. Please confirm the capacity and then try again.
DMED0E000D	0x030E000D	The logical units are over maximum. Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.
DMED0E000E	0x030E000E	The logical units of RAID group are over maximum. Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.
DMED0E000F	0x030E000F	The specified area number is outside of the effective range. Please specify the area number within the range and try again.
DMED0E0010	0x030E0010	The specified area does not exist. Please confirm the area number and then try again.
DMED0E0011	0x030E0011	The logical unit number to show the position of the free area is outside of the effective range. Please specify the logical unit number within the range and then try again.
DMED0E0012	0x030E0012	The logical unit number to show the position of the free area is outside of the effective range. Please specify the logical unit number within the range and then try again.
DMED0E0013	0x030E0013	The logical unit number to show the position of the free area is not defined. Please specify a defined logical unit and then try again.
DMED0E0014	0x030E0014	The logical unit number to show the position of the free area is not defined. Please specify a defined logical unit and then try again.
DMED0E0015	0x030E0015	The logical unit number to show the position of the free area is not defined in specified RAID group. Please confirm the logical unit of specified RAID group and then try again.
DMED0E0016	0x030E0016	The logical unit number to show the position of the free area is not defined in specified RAID group. Please confirm the logical unit of specified RAID group and then try again.
DMED0E0017	0x030E0017	The logical unit number to show the position of the free area is invalid. Please confirm the logical unit and then try again.
DMED0E0018	0x030E0018	The specified area is overlapped. Please confirm the area and then try again.
DMED0E0019	0x030E0019	The unused area is specified. Please confirm the area and then try again.
DMED0E001A	0x030E001A	The unified LU reached the maximum. Please confirm the capacity or area number and then try again.
DMED0E001B	0x030E001B	The unified LU reached the maximum. Please confirm the capacity or area number and then try again.
DMED0E001C	0x030E001C	The RAID group is invalid. Please confirm the RAID group and then try again.
DMED0E001D	0x030E001D	The process cannot be performed because RAID level of specified logical unit is RAID0. Please specify another logical unit and then try again.
DMED0E001E	0x030E001E	The capacity of logical unit is over maximum. Please confirm the capacity and then try again.
DMED0E001F	0x030E001F	The specified capacity is invalid. Please confirm the capacity and then try again.
DMED0E0020	0x030E0020	The unified LU reached the maximum. Please confirm the capacity or area number and then try again.
DMED0E0021	0x030E0021	The capacity of specified area is insufficient. Please confirm the capacity and then try again.
DMED0E0022	0x030E0022	The capacity of specified area is insufficient. Please confirm the capacity and then try again.
DMED0E0023	0x030E0023	Hitachi Storage Navigator Modular 2 is less than Ver.8.30. The preparations of quick formatting are incomplete. Please retry after waiting for a while. Hitachi Storage Navigator Modular 2 is Ver.8.30 or more. The quick format size is over maximum value. Please retry after that specified quick format size is decreased or current executed quick format is finished.
DMED0E0024	0x030E0024	The logical unit number is not defined. Please specify a defined logical unit and then try again.
DMED0E0025	0x030E0025	The capacity of specified area is insufficient. Please confirm the capacity and then try again.
DMED0E0026	0x030E0026	The specified capacity is over the logical unit capacity. Please confirm the capacity and then try again.
DMED0E0027	0x030E0027	The process cannot be performed because the specified logical unit is not normal state. Please recover the status and then try again.
DMED0E0028	0x030E0028	The process cannot be performed because the specified logical unit contains an un-mounted drive or a blocked drive. Confirm the drive status and try again.

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Message code	Error code	Message text/Recovery methods
DMED0E0029	0x030E0029	The process cannot be performed because the over provisioning threshold of the specified DP pool is equal to or more than the limit. Please add DP pool capacity and then try again.
DMED0E002A	0x030E002A	The process cannot be performed because the over provisioning threshold of the DP pool that has the specified logical unit is equal to or more than the limit. Please add DP pool capacity and then try again.
DMED0E002B	0x030E002B	The process cannot be performed because specified logical unit is mapped. Please delete mapping and then try again.
DMED0E002C	0x030E002C	The process cannot be performed because the specified capacity will exceed the available maximum capacity of the subsystem. Please specify the capacity within the range of the available maximum capacity of the subsystem and then try again.
DMED0F0001	0x030F0001	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED0F0002	0x030F0002	The process cannot be performed because the drives of Unit0 and the latter units are contained within the range of the specified RAID group.
DMED0F0003	0x030F0003	The process cannot be performed because the non-supported drive on this subsystem are contained within the range of the specified RAID group.
DMED0F0005	0x030F0005	The process cannot be performed because the number of drive is incorrect. Please confirm the mounted drive and try again.
DMED0F0007	0x030F0007	The number of defined RAID group reached the maximum. Delete unnecessary RAID groups and then try again.
DMED100001	0x03100001	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED100002	0x03100002	The process cannot be performed because the RAID level of the specified logical unit is not supported. Confirm the RAID level currently supported and try again.
DMED100003	0x03100003	The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again, or please execute online/offline formatting.
DMED100004	0x03100004	The process cannot be performed because the specified logical unit is extended and not formatted. Please execute online/offline formatting.
DMED100005	0x03100005	Hitachi Storage Navigator Modular 2 is less than Ver.8.30.
		The preparations of quick formatting are incomplete. Please retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.8.30 or more.
		The quick format size is over maximum value. Please retry after that specified quick format size is decreased or current executed quick format is finished.
DMED100006	0x03100006	The process cannot be performed because the specified logical unit contain an un-mounted drive or a blocked drive. Confirm the drive status and try again.
DMED100007	0x03100007	Hitachi Storage Navigator Modular 2 is less than Ver.9.75.
		Format of the logical unit cannot be performed under drive blockage mode. Please turn off the drive blockade mode system parameter.
		Hitachi Storage Navigator Modular 2 is Ver.9.75 or more.
		Format of the logical unit cannot be performed under the Drive Detach Mode. Please turn off the Drive Detach Mode of system parameter.
DMED100008	0x03100008	The process cannot be performed because the specified logical unit is not formatted and set the access level other than S-VOL mode. Please change the attribute to Read/Write and try again.
DMED110001	0x03110001	The mapping mode cannot be changed because the mapping guard LU exists.
DMED110002	0x03110002	The mapping information cannot be changed because the mapping guard LU exists.
DMED110003	0x03110003	The specified logical unit is not defined. Please specify a defined logical unit.
DMED120001	0x03120001	The specified drive cannot be defined as a spare drive because it is not supported on this subsystem.

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Message code	Error code	Message text/Recovery methods
DMED130001	0x03130001	The process cannot be performed because the specified remote path is not set up.
DMED130002	0x03130002	The process cannot be performed because the specified port is iSCSI port. Please confirm the port type and try again.
DMED130003	0x03130003	The process cannot be performed because remote ports of path0 and path1 are set to the same controller of the remote subsystem. Please set one of the remote ports to the other controller and try again.
DMED130004	0x03130004	The process cannot be performed because the specified Timeout Period is outside the effective range. Please confirm the Timeout Period and try again.
DMED130005	0x03130005	The process cannot be performed because the specified bandwidth is outside the effective range. Please confirm the bandwidth and try again.
DMED130006	0x03130006	The process cannot be performed because the path status is normal. Please confirm the status of path.
DMED130007	0x03130007	The process cannot be performed because the path does not exist. Please setting the path and try again.
DMED130008	0x03130008	The process cannot be performed because the path reconstruction is in progress. Please confirm the status of path and try again.
DMED130009	0x03130009	The process cannot be performed because the path reconstruction is in progress. Please confirm the status of path and try again.
DMED130010	0x03130010	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED130011	0x03130011	The process cannot be performed because the path does not exist. Please setting the path and try again.
DMED130012	0x03130012	The process cannot be performed because the path does not exist. Please setting the path and try again.
DMED130013	0x03130013	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED130014	0x03130014	The process cannot be performed because port are physically unequipped. Please confirm the port type and the subsystem status and try again.
DMED130015	0x03130015	The process cannot be performed because the specified path is already defined. Please confirm the status of path and try again.
DMED130016	0x03130016	The process cannot be performed because the Hosts is logging out. Please wait a moment and try again.
DMED130017	0x03130017	The same array ID as a self subsystem is specified. Please specify the array ID of connected subsystem.
DMED130018	0x03130018	The process cannot be performed because the fibre channel port is not equipped. Please confirm the port type and try again.
DMED130019	0x03130019	The process cannot be performed because Remote Replication pair of Synchronizing or Paired exists. Please confirm the status of pair and try again.
DMED13001A	0x0313001A	The process cannot be performed because iSCSI port is physically unequipped. Please confirm the port type and try again.
DMED13001B	0x0313001B	The process cannot be performed because Distributed Mode is Hub. Please change Distributed Mode to Edge and try again.
DMED13001C	0x0313001C	The process cannot be performed because the remote path or remote port CHAP information (Target information) is defined. Please change Distributed Mode to Hub and try again.
DMED13001D	0x0313001D	The specified array ID is already registered. Please specify another array ID and then try again.
DMED13001E	0x0313001E	The process cannot be performed because the remote path or remote port CHAP information (Target information) is specified. Please change Hub array unit and then try again.
DMED13001F	0x0313001F	The number of defined remote path reached the maximum. Please delete unnecessary remote path and try again.
DMED130020	0x03130020	The specified remote path name is already registered. Please specify another remote path name and then try again.
DMED130021	0x03130021	The specified remote array ID cannot be set because Distributed Mode is Hub. Please change Distributed Mode to Edge, or specify array ID of remote subsystem that Distributed mode is Edge and try again.
DMED130022	0x03130022	The specified array ID does not exist. Please specify a right array ID.
DMED130023	0x03130023	The process cannot be performed because Distributed Mode is not supported. Please confirm the subsystem and try again.
DMED130024	0x03130024	The process cannot be performed because the remote path to two or more are defined. Please delete unnecessary remote path and try again.

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Message code	Error code	Message text/Recovery methods
DMED130025	0x03130025	The process cannot be performed because the remote port CHAP information (Target information) to two or more is defined. Please delete unnecessary remote port CHAP information (Target information) and try again.
DMED130026	0x03130026	The process cannot be performed because the Remote Replication pair exists to two or more subsystems. Please cancel the Remote Replication pair and try again.
DMED130027	0x03130027	The process cannot be performed because the remote path is defined on the subsystem whose Distributed Mode is not supported. Please delete unnecessary remote path and try again.
DMED130028	0x03130028	The process cannot be performed because the remote port CHAP information (Target information) is defined on the subsystem whose Distributed Mode is not supported. Please delete unnecessary remote port CHAP information (Target information) and try again.
DMED130029	0x03130029	The process cannot be performed because Remote Replication pair exists on the subsystem whose Distributed Mode is not supported. Please cancel unnecessary Remote Replication pair and try again.
DMED13002A	0x0313002A	The process cannot be performed because the remote path is defined. Please delete remote path and try again.
DMED13002B	0x0313002B	The process cannot be performed because the remote port CHAP information (Target information) is defined. Please delete unnecessary remote port CHAP information (Target information) and try again.
DMED13002C	0x0313002C	The process cannot be performed because Distributed Mode is Hub. Please change Distributed Mode to Edge and try again.
DMED13002E	0x0313002E	The process cannot be performed because the specified array is not supported the Remote Replication connecting of iSCSI interface. Please specify the Fibre interface or confirm the array and try again.
DMED130030	0x03130030	The process cannot be performed because the specified subsystem by array ID is not supported Remote Replication. Please confirm the array ID and try again.
DMED130032	0x03130032	The process cannot be performed because the specified array is not supported the Remote Replication connecting of Fibre interface. Please specify the iSCSI interface or confirm the array and try again.
DMED140001	0x03140001	The process cannot be performed because the term of the temporary key or emergency key is expired.
DMED140002	0x03140002	The process cannot be performed because the DM-LU has already been set. Please cancel the DM-LU and try again.
DMED140003	0x03140003	The process cannot be performed because the specified operation mode is outside the effective range or two or more operation is specified at the same time. Please confirm the operation mode and try again.
DMED140004	0x03140004	The process cannot be performed because DC power supply is physically unequipped. Please confirm the subsystem status and try again.
DMED140005	0x03140005	The function cannot be executed for this subsystem. Please confirm the subsystem.
DMED140006	0x03140006	The process cannot be performed because cache memory size is insufficient. Please increase a larger cache memory and then try again.
DMED140007	0x03140007	The specified value is outside the effective range. Please specify the value in the effective range and try again.
DMED150001	0x03150001	The process cannot be performed because the cache partition is not initial status. Please change the cache partition to initial status and try again.
DMED150004	0x03150004	The process cannot be performed because the cache partition is less than minimum size. Please confirm the cache partition size and try again.
DMED150005	0x03150005	The process cannot be performed because the PIN is exceeded state. Please restore PIN data and try again.
DMED150006	0x03150006	The segment size of cache partition (0 or 1) cannot be changed.
DMED150007	0x03150007	The process cannot be performed because ShadowImage is in use. Please cancel the ShadowImage pair and try again. (*1)
DMED150009	0x03150009	The process cannot be performed because SnapShot is in use. Please cancel the SnapShot pair and try again.
DMED15000B	0x0315000B	The process cannot be performed because process of Write command from the hosts is not completed. Please wait for a while and then try again, or delete the logical unit.
DMED15000C	0x0315000C	The function cannot be executed because a Cache Residency LU or a reserved one exists. Disable the LU, and then try again.

*1 : When this is displayed at the time of the firmware download, the factor of "Since both P-Vol and S-Vol of one ShadowImage pair are P-Vol or S-Vol of TrueCopy, the downgrade cannot be performed" is considered.
In this case, release the target Shadow Image pair or True Copy pair, and execute it again.

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Message code	Error code	Message text/Recovery methods
DMED15000D	0x0315000D	The specified segment size is incorrect. Please confirm the segment size and try again.
DMED15000E	0x0315000E	The process cannot be performed because the LU change is in progress. Please wait a moment and try again.
DMED15000F	0x0315000F	The specified cache partition number is incorrect. Please confirm the cache partition number and try again.
DMED150010	0x03150010	The controller of current cache partition cannot be changed. Please delete the cache partition, and set up again.
DMED150011	0x03150011	The process cannot be performed because the total size of cache partition is over the cache capacity. Please confirm the cache partition size and try again.
DMED150012	0x03150012	The cache partition with which the logical unit is set up, or the cache partition of 0 or 1 cannot be deleted. Please confirm the cache partition number.
DMED150013	0x03150013	The process cannot be performed because the specified cache partition is not defined. Please specify a defined cache partition and try again.
DMED150014	0x03150014	The process cannot be performed because the stripe size of logical unit is not 64KB. Please delete the logical unit and try again.
DMED150015	0x03150015	The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Please cancel the Remote Replication pair and try again.
DMED150016	0x03150016	The process cannot be performed because the total cache partition capacity using the segment size of 4KB or 8KB is over the system limit. Please confirm the cache partition size or the segment size and try again.
DMED160002	0x03160002	The process cannot be performed because the specified logical unit is a Sub LU of the unifying LUs. Please separate the unified LU and try again.
DMED160011	0x03160011	The logical unit cannot be allocated the specified cache partition. Please specify another cache partition number and try again.
DMED160012	0x03160012	The process cannot be performed because the Cache Partition Manager is not installed, locked, or disabled.
DMED160013	0x03160013	The process cannot be performed because the specified logical unit is SnapShot logical unit. Please specify another logical unit number and try again.
DMED160014	0x03160014	The process cannot be performed because the specified cache partition is not defined. Please confirm the cache partition and try again.
DMED160015	0x03160015	The process cannot be performed because Cache Partition Manager is not installed, locked, or disabled. Please install Cache Partition Manager and try again.
DMED160016	0x03160016	The process cannot be performed because the specified cache partition is not defined. Please confirm the cache partition and try again.
DMED160017	0x03160017	The process cannot be performed because the specified cache partition is set to the different controller. Please confirm the cache partition and try again.
DMED160018	0x03160018	The process cannot be performed because the combination of stripe size and segment size does not match. Please confirm the stripe size or the cache partition, and try again.
DMED160019	0x03160019	The process cannot be performed because the specified cache partition size is insufficient. Please confirm the cache partition and try again.
DMED16001E	0x0316001E	The process cannot be performed because the pair cache partition and the cache partition are set to the same controller. Please confirm the cache partition and try again.
DMED16001F	0x0316001F	The process cannot be performed because the segment size does not match. Please confirm the segment size of cache partition and try again.
DMED160020	0x03160020	The process cannot be performed because the specified cache partition size is insufficient. Please confirm the cache partition and try again.
DMED160021	0x03160021	The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.
DMED160022	0x03160022	The process cannot be performed because PIN data exists. Please restore PIN data and try again.
DMED170001	0x03170001	The process cannot be performed because the specified logical unit is capacity less than 5GB. Specify the logical unit is equal to or more than 5GB and try again.
DMED170002	0x03170002	The process cannot be performed because the specified logical unit is RAID level 0. Specify another logical unit and try again.

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Message code	Error code	Message text/Recovery methods
DMED170003	0x03170003	Hitachi Storage Navigator Modular 2 is less than Ver.7.20. The process cannot be performed because the specified logical unit is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again. Hitachi Storage Navigator Modular 2 is Ver.7.20 or more. This process cannot be performed. The status of the specified logical unit must be in either normal or regressed state. Please verify the status of the logical unit and try again.
DMED170004	0x03170004	The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again.
DMED170005	0x03170005	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED170006	0x03170006	The process cannot be performed because the specified logical unit is a command device. Cancel the command device and try again.
DMED170007	0x03170007	The process cannot be performed because the specified logical unit is capacity less than 10GB. Specify the logical unit is equal to or more than 10GB and try again.
DMED170008	0x03170008	The process cannot be performed because the capacity of DP pool is insufficient. Please wait a moment and then try again. If you cannot set up again, please grow the capacity of DP pool.
DMED170009	0x03170009	The process cannot be set to DM-LU because specified logical unit is mapped. Please delete mapping and then try again.
DMED180001	0x03180001	The specified logical unit cannot be set as Cache Residency LU because its cache partition is not 0 or 1. Please try again after changing a cache partition into 0 or 1, or specify the logical unit of the cache partition 0 or 1.
DMED190001	0x03190001	The specified IP address is incorrect. Please specify a correct IP address.
DMED190002	0x03190002	The same IP address as the management LAN cannot be set up. Please specify a correct IP address.
DMED190003	0x03190003	The process cannot be performed because NNC or subsystem is in progress. Please wait a moment and then try again.
DMED190004	0x03190004	The same IP address as the maintenance LAN cannot be set up. Please specify a correct IP address.
DMED190005	0x03190005	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED190006	0x03190006	The process cannot be performed because NNC or subsystem is in progress. Please wait a moment and then try again.
DMED190007	0x03190007	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED190008	0x03190008	The same IP address as the NNC LAN cannot be set up. Please specify a correct IP address.
DMED190009	0x03190009	The maintenance LAN cannot be changed automatically because the same network address is specified as a maintenance LAN when NNC is connected. Please confirm the specified network address and try again.
DMED19000B	0x0319000B	The specified host address of the maintenance LAN is incorrect. Please specify a correct IP address.
DMED19000C	0x0319000C	The process cannot be performed because the subnet mask of the management LAN is incorrect. Please set up the correct subnet mask and try again.
DMED19000D	0x0319000D	The process cannot be performed because the default gateway of the management LAN is incorrect. Please set up the correct default gateway and try again.
DMED19000E	0x0319000E	The DHCP and the maintenance LAN automatic change cannot be specified at the same time. Please confirm the operation and try again.
DMED19000F	0x0319000F	The specified host address of the management LAN is incorrect. Please specify a correct IP address.
DMED190010	0x03190010	The process cannot be performed because the segment is different between the management LAN and default gateway. Please specify a correct IP address.
DMED190011	0x03190011	The process cannot be performed because the maintenance LAN automatic change mode is enabled. Please set this mode to disable and try again.
DMED190012	0x03190012	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED190013	0x03190013	The specified IP address is incorrect. Please specify a correct IP address.

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Message code	Error code	Message text/Recovery methods
DMED1A0001	0x031A0001	The process cannot be performed because NNC is not connected. Please connect NNC and try again.
DMED1A0002	0x031A0002	The specified logical unit is not defined. Please specify a defined logical unit.
DMED1A0003	0x031A0003	The process cannot be performed because the specified logical unit is less than minimum size of System LU. Please confirm the logical unit size and try again.
DMED1A0004	0x031A0004	The process cannot be performed because the specified logical unit is already assigned. Please specify a logical unit that is not assigned and try again.
DMED1A0005	0x031A0005	The process cannot be performed because the specified logical unit is S-VOL of ShadowImage. Please specify another logical unit and try again.
DMED1A0006	0x031A0006	The process cannot be performed because the specified logical unit is S-VOL of Remote Replication. Please specify another logical unit and try again.
DMED1A0007	0x031A0007	The process cannot be performed because the specified logical unit is defined as a SnapShot logical unit. Please specify another logical unit and try again.
DMED1A0008	0x031A0008	The process cannot be performed because the specified logical unit is added to a data pool. Please specify another logical unit and try again.
DMED1A0009	0x031A0009	The process cannot be performed because the specified logical unit is a Sub LU of the unifying LUs. Please specify another logical unit and try again.
DMED1A000A	0x031A000A	The process cannot be performed because the specified logical unit is the mapping guard LU. Please specify another logical unit and try again.",
DMED1A000B	0x031A000B	The process cannot be performed because the specified logical unit is a command device. Please specify another logical unit and try again.
DMED1A000C	0x031A000C	The specified logical unit is not defined as a command device. Please specify a logical unit that is already defined to a command device.
DMED1A000D	0x031A000D	The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.
DMED1A000E	0x031A000E	The process cannot be performed because the specified logical unit is DM-LU. Please specify another logical unit and try again.
DMED1A000F	0x031A000F	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED1A0010	0x031A0010	The process cannot be performed because all ports are used for NAS. Please confirm the port type.
DMED1A0020	0x031A0020	The process cannot be performed because system LU exists.
DMED1A0021	0x031A0021	The process cannot be performed because user LU exists.
DMED1A0022	0x031A0022	The process cannot be performed because the specified logical unit is system LU. Please release system LU and try again.
DMED1A0023	0x031A0023	The process cannot be performed because the specified logical unit is user LU. Please specify another logical unit and try again.
DMED1A0024	0x031A0024	The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.
DMED1A0025	0x031A0025	The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.
DMED1A0026	0x031A0026	The specified port is used for NAS. Please specify another port.
DMED1A0027	0x031A0027	The unification cannot be performed because the stripe size does not match. Please confirm the stripe size of logical unit and try again.
DMED1A0028	0x031A0028	The process cannot be performed because the specified logical unit is P-VOL or V-VOL of SnapShot. Please specify another logical unit and try again.
DMED1A0029	0x031A0029	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED1A002A	0x031A002A	The process cannot be performed because the specified logical unit is being used as ShadowImage pair with more than 2 S-VOL. Please delete S-VOL and make the pair into one-to-one relation, or cancel the pair, and then try again.

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Message code	Error code	Message text/Recovery methods
DMED1A0030	0x031A0030	The Command Device(secondary) cannot set to the NNCtype1.
DMED1A0031	0x031A0031	The Working Area for Dump cannot set to this NNCtype2.
DMED1A0032	0x031A0032	The process cannot be performed because the Command Device is not set by system LU. Please set the Command Device and try again.
DMED1A0033	0x031A0033	The process cannot be performed because the Command Device(secondary) is set by system LU. Please release the Command Device(secondary) and try again.
DMED1A0034	0x031A0034	The process cannot be performed because the equipped NNC is unknown or mixture.
DMED1A0070	0x031A0070	The process cannot be performed because the equipped NNC is NNCtype2.
DMED1A0071	0x031A0071	The process cannot be performed because the NAS OS is not installed. Please install the NAS OS and try again.
DMED1A0072	0x031A0072	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED1A0073	0x031A0073	The process cannot be performed because the NNC is not stopped. Please stop the NNC and try again.
DMED1A0074	0x031A0074	The process cannot be performed because the equipped NNC is NNCtype1.
DMED1A0075	0x031A0075	The process cannot be performed because the system LU is not backed up.
DMED1A0076	0x031A0076	The process cannot be performed because the NNC is not stopped or detached.
DMED1A0077	0x031A0077	The process cannot be performed because the system LU is not backed up.
DMED1B0001	0x031B0001	The specified IP address is incorrect. Please specify a correct IP address.
DMED1B0002	0x031B0002	It is impossible to change to specified IP address. Please specify a correct IP address.
DMED1B0003	0x031B0003	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED1B0004	0x031B0004	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED1B0005	0x031B0005	The process cannot be performed because the DHCP is enabled. Please set the DHCP to disable and try again.
DMED1B0006	0x031B0006	The process cannot be performed during the maintenance LAN setting. Please wait a moment and then try again.
DMED1B0008	0x031B0008	The process cannot be performed because the DHCP is enabled. Please set the DHCP to disable and try again.
DMED1B0009	0x031B0009	The process cannot be performed because NNC is equipped. Please confirm the port type and try again.
DMED1B000A	0x031B000A	The process cannot be performed because the same address is specified as the maintenance LAN and the management LAN. Please specify the different address and try again.
DMED1C0001	0x031C0001	The process cannot be performed because iSCSI port is physically unequipped. Please confirm the port type and try again.
DMED1C0002	0x031C0002	The process cannot be performed because the authentication method is not specified. Please confirm the authentication method and try again.
DMED1C0003	0x031C0003	The process cannot be performed because the specified alias format is invalid. Please confirm the alias and try again.
DMED1C0004	0x031C0004	The process cannot be performed because the same alias exists in a port. Please confirm the alias and try again.
DMED1C0005	0x031C0005	The process cannot be performed because the specified iSCSI Name format is invalid. Please confirm iSCSI Name and try again.
DMED1C0006	0x031C0006	The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.
DMED1C0007	0x031C0007	The process cannot be performed because the specified target is not defined. Please confirm the target and try again.
DMED1C0008	0x031C0008	The process cannot be performed because the specified name format is invalid. Please confirm the name and try again.
DMED1C0009	0x031C0009	The process cannot be performed because the same name exists in a port. Please confirm the name and try again.

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Message code	Error code	Message text/Recovery methods
DMED1C000A	0x031C000A	The process cannot be performed because the specified iSCSI Name format is invalid. Please confirm iSCSI Name and try again.
DMED1C000B	0x031C000B	The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.
DMED1C000C	0x031C000C	The process cannot be performed because the term of the temporary key or emergency key is expired.
DMED1C000D	0x031C000D	The process cannot be performed because the invalid character is specified. Please confirm the user name and try again.
DMED1C000E	0x031C000E	The process cannot be performed because the invalid character is specified. Please confirm the secret and try again.
DMED1C000F	0x031C000F	The process cannot be performed because the character length of user name is outside the effective range. Please confirm the user name and try again.
DMED1C0010	0x031C0010	The process cannot be performed because the character length of secret is outside the effective range. Please specify the secret of 12 to 32 characters and try again.
DMED1C0011	0x031C0011	The process cannot be performed because the specified IP address is incorrect. Please specify a correct IP address.
DMED1C0012	0x031C0012	The process cannot be performed because the specified port number is incorrect. Please specify a correct port number.
DMED1C0013	0x031C0013	The process cannot be performed because Keep Alive Timer is outside the effective range. Please specify Keep Alive Timer of 30 to 64800 and try again.
DMED1C0014	0x031C0014	The process cannot be performed because the specified port number is incorrect. Please specify a correct port number.
DMED1C0015	0x031C0015	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED1C0017	0x031C0017	The process cannot be performed because the character length of iSCSI Name is outside the effective range. Please confirm iSCSI Name and try again.
DMED1C0018	0x031C0018	The process cannot be performed because the invalid character is specified. Please confirm iSCSI Name and try again.
DMED1C0019	0x031C0019	The process cannot be performed because the character length of iSCSI Name is outside the effective range. Please confirm iSCSI Name and try again.
DMED1C001A	0x031C001A	The process cannot be performed because the invalid character is specified. Please confirm iSCSI Name and try again.
DMED1C001B	0x031C001B	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMED1C001C	0x031C001C	The process cannot be performed because the specified IP address is incorrect. Please specify a correct IP address.
DMED1C001D	0x031C001D	The process cannot be performed because the ping is executing. Please try again after the ping is completed.
DMED1C001E	0x031C001E	The process cannot be performed because the specified CHAP algorithm is incorrect. Please specify a correct CHAP algorithm and try again.
DMED1C001F	0x031C001F	The process cannot be performed because the character length of secret is outside the effective range. Please specify the secret of 12 to 32 characters and try again.
DMED1C0020	0x031C0020	The process cannot be performed because the invalid character is specified. Please confirm the secret and try again.
DMED1C0021	0x031C0021	The process cannot be performed because the invalid character is specified. Please confirm the user name and try again.
DMED1C0022	0x031C0022	The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.
DMED1C0023	0x031C0023	The process cannot be performed because the LUN Manager is not installed, locked, or disabled. Please install the LUN Manager and then try again.
DMED1C0024	0x031C0024	The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.

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Message code	Error code	Message text/Recovery methods
DMED1C0025	0x031C0025	The process cannot be performed because the character length of alias is outside the effective range. Please confirm the alias and try again.
DMED1C0026	0x031C0026	The process cannot be performed because the invalid character is specified. Please confirm the alias and try again.
DMED1C0027	0x031C0027	The process cannot be performed because the character length of name is outside the effective range. Please confirm the name and try again.
DMED1C0028	0x031C0028	The process cannot be performed because the invalid character is specified. Please confirm the name and try again.
DMED1C0029	0x031C0029	The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.
DMED1C002A	0x031C002A	The process cannot be performed because the specified target is not defined. Please confirm the target and try again.
DMED1C002B	0x031C002B	The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.
DMED1C003A	0x031C003A	The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.
DMED1C003B	0x031C003B	The process cannot be performed because the specified alias is default name of Target 0. Please confirm the alias and try again.
DMED1C003C	0x031C003C	The process cannot be performed because the specified iSCSI Name is default name of Target 0. Please confirm iSCSI Name and try again.
DMED1C003D	0x031C003D	The process cannot be performed because the same alias exists in a port. Please confirm the alias and try again.
DMED1C003E	0x031C003E	The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.
DMED1C003F	0x031C003F	The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.
DMED1C0040	0x031C0040	The process cannot be performed because the specified host group or target is outside the effective range. Please confirm the host group or target and try again.
DMED1C0041	0x031C0041	The information cannot be obtained because iSCSI port is physically unequipped. Please confirm the port status and try again.
DMED1C0042	0x031C0042	The specified MTU is incorrect. Please specify a correct MTU.
DMED1C0043	0x031C0043	The process cannot be performed because the specified MTU value is not set to equipped interface board. Please confirm the MTU value.
DMED1C0050	0x031C0050	The process cannot be performed because the Digest is not set to equipped interface board. Please confirm the interface board type.
DMED1D0001	0x031D0001	The process cannot be performed during the SNMP setting. Please wait a moment and then try again.
DMED1E0001	0x031E0001	The process cannot be performed because the cycle time is out of range. Please specify the cycle time of 30 to 3600 and try again.
DMED1E0002	0x031E0002	The process cannot be set because the specified cycle time is less than the minimum value. Please confirm the cycle time and try again.
DMED1E0003	0x031E0003	The process cannot be performed because the specified Queuing Inhibition Time is outside the effective range. Please confirm the Queuing Inhibition Time and try again.
DMED1E0004	0x031E0004	The process cannot be performed because the specified function is not supported on this subsystem. Please confirm the subsystem and try again.
DMED1E0010	0x031E0010	The process cannot be performed because the Remote Replication pair exists. Please cancel the Remote Replication pair and try again.
DMED1E0011	0x031E0011	The process cannot be performed during the Remote Replication pair deleting. Please wait a moment and then try again.
DMED1E0012	0x031E0012	The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Please specify another logical unit and try again.

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Message code	Error code	Message text/Recovery methods
DMED1E0013	0x031E0013	The process cannot be performed because the deallocation of cache blocks for SnapShot is in progress. Please wait a moment and then try again.
DMED1E0014	0x031E0014	The process cannot be performed because the subsystem is not restarted after Remote Replication is installed. Please restart the subsystem and then try again.
DMED1E0015	0x031E0015	The process cannot be performed because the subsystem is not restarted after Remote Replication or SnapShot is installed. Please restart the subsystem and then try again.
DMED1E0016	0x031E0016	The process cannot be performed because the subsystem is not restarted after Remote Replication or SnapShot is de-installed. Please restart the subsystem and then try again.
DMED1E0017	0x031E0017	The process cannot be performed because the status of Remote Replication pair is improper. Please confirm the status of pair and try again.
DMED1F0001	0x031F0001	The Spare Drive Operation Mode is fixed and the Applying No Copy Back Mode on All the Units is enabled. This combination is not possible to specify. Please confirm the operation and try again.
DMED1F0010	0x031F0010	The process failed due to an invalid parameter. Please confirm the specified value.
DMED1F0011	0x031F0011	The process cannot be performed because the specified IP address is incorrect. Please confirm the IP address and try again.
DMED1F0012	0x031F0012	The process cannot be performed because the same IP address is specified to Syslog Server 1 and Syslog Server 2. Please confirm the IP address and try again.
DMED1F0013	0x031F0013	The process failed due to an invalid parameter. Please confirm the specified value.
DMED1F0014	0x031F0014	The process cannot be performed because the internal log is disabled. Please set the internal log to enable and try again.
DMED1F0015	0x031F0015	The process cannot be performed because the internal log is being exported. Please wait a moment and then try again.
DMED1F0017	0x031F0017	The process cannot be performed because the log export failed. Please wait a moment and then try again.
DMED1F0018	0x031F0018	The process failed due to an invalid parameter. Please confirm the specified value.
DMED1F0019	0x031F0019	The process cannot be performed because the internal log is using. Please confirm the internal log status and try again.
DMED1F001A	0x031F001A	The process cannot be performed because the same IP address is specified to Syslog Server 1 and Syslog Server 2. Please confirm the IP address and try again.
DMED1F001B	0x031F001B	The process cannot be performed because the IPv6 address is specified to Syslog Server. Please confirm the version of the navigator.
DMED1F0020	0x031F0020	The user ID is too short. Please confirm the user ID.
DMED1F0021	0x031F0021	The invalid character is specified in user ID. Please confirm the user ID.
DMED1F0022	0x031F0022	The current login session is expired, Please login again.
DMED1F0023	0x031F0023	You have no permission. Please contact the Account Administrator and confirm your permission.
DMED1F0024	0x031F0024	The specified user ID has already been registered. Please specify another user ID.
DMED1F0025	0x031F0025	The specified user ID is not registered. Please confirm the user ID.
DMED1F0026	0x031F0026	The role is not assigned. Please assign one or more roles.
DMED1F0027	0x031F0027	The process cannot be performed for logged in user.
DMED1F0028	0x031F0028	The process cannot be performed for Built-in account.
DMED1F0029	0x031F0029	You have no permission to modify. Please contact the Account Administrator and confirm your permission.
DMED1F002A	0x031F002A	The logged in user reached the maximum. Please wait a moment and then try again.
DMED1F002B	0x031F002B	The specified password does not match. Please specify password again.
DMED1F002C	0x031F002C	You cannot login because account status is disabled. Please contact Account Administrator, and confirm the account status.
DMED1F002D	0x031F002D	The specified password does not match. Please confirm the password.
DMED1F002E	0x031F002E	The account reached the maximum. Please delete unnecessary account and try again.
DMED1F002F	0x031F002F	The specified password length is less than minimum. Please confirm the password length.

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Message code	Error code	Message text/Recovery methods
DMED1F0030	0x031F0030	Password Protection and Account Authentication cannot be used together.
DMED1F0031	0x031F0031	Account Authentication cannot be installed or be enabled, because NNC is equipped. Please change the subsystem into Fibre or iSCSI configuration, and try again.
DMED1F0032	0x031F0032	The process cannot be performed because the specified session timeout value is outside the effective range. Please confirm the session timeout value.
DMED1F0033	0x031F0033	The process cannot be performed because TrueCopy Modular Distributed is installed. Please de-install the option and try again.
DMED1F0034	0x031F0034	The specified function can not be installed because the function does not meet a requirement. Please retry after installing or enabling the TrueCopy function.
DMED1F0040	0x031F0040	The process cannot be performed because the term of the temporary key or emergency key is expired.
DMED1F0041	0x031F0041	The process cannot be performed because the ShadowImage pair is contained.
DMED1F0042	0x031F0042	The process cannot be performed because the Remote Replication pair is contained.
DMED1F0043	0x031F0043	The process cannot be performed because the Remote Replication pair is contained.
DMED1F0044	0x031F0044	The process cannot be performed because the SnapShot pair is contained.
DMED1F0045	0x031F0045	The process cannot be performed because the Volume Migration pair is contained.
DMED1F0048	0x031F0048	The process cannot be performed because formatting is now occurring. Please try again after it is completed.
DMED1F0049	0x031F0049	The process cannot be performed because parity correction is not completed. Please try again after it is completed.
DMED1F004A	0x031F004A	The process cannot be performed because the data pool is contained. Please delete the data pool and try again.
DMED1F004B	0x031F004B	The process cannot be performed because the DM-LU is contained. Please cancel the DM-LU and try again.
DMED1F004C	0x031F004C	The process cannot be performed because the command device is contained. Please cancel the command device and try again.
DMED1F004D	0x031F004D	The process cannot be performed because the system LU is contained. Please cancel the system LU and try again.
DMED1F004E	0x031F004E	The process cannot be performed because the LU change is in progress. Please try again after it is completed.
DMED1F0051	0x031F0051	The process cannot be performed because the system drives is contained.
DMED1F0052	0x031F0052	The process cannot be performed because the write uncompleted LU is contained. Please recover and then try again.
DMED1F0053	0x031F0053	The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.
DMED1F0054	0x031F0054	The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.
DMED1F0055	0x031F0055	The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.
DMED1F0056	0x031F0056	The process cannot be performed because the RAID groups in state of Power Saving are existing. Please wait for a while and try again.
DMED1F0057	0x031F0057	The specified RAID group is not defined. Please specify a defined RAID group.
DMED1F0058	0x031F0058	The process cannot be performed because the drive recovery is in progress. Please try again after it is completed.
DMED1F0059	0x031F0059	The process cannot be performed because the health checking is in progress. Please try again after it is completed.
DMED1F005A	0x031F005A	The process cannot be performed because the user LU is contained. Please cancel the user LU and try again.
DMED1F005B	0x031F005B	The process cannot be performed because the SES drives is contained.
DMED1F005C	0x031F005C	The process cannot be performed because state of Power Saving is in progress. Please retry after progress is completed.
DMED1F005D	0x031F005D	The process cannot be performed because the specified RAID group consists of SSD. Please confirm the RAID group and then try again.
DMED1F005E	0x031F005E	The process cannot be performed because the RAID groups which used system drives are in state of Power Saving. Please spin up the RAID groups and try again.

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Message code	Error code	Message text/Recovery methods
DMED1F0080	0x031F0080	The process cannot be performed because the external authentication server 1 is not defined. Please confirm the external authentication server 1 and try again.
DMED1F0082	0x031F0082	The process cannot be performed because the external authentication server 1 is not defined and the user whose user authentication is RADIUS exists. Please change the user authentication to Internal and try again.
DMED1F0083	0x031F0083	The specified IP address is incorrect. Please specify a correct IP address.
DMED1F0084	0x031F0084	The authentication classification cannot be RADIUS because the user authentication server 1 is not defined. Please setting the external authentication server 1 as RADIUS and try again.
DMED1F0085	0x031F0085	The process cannot be performed because the authentication test with the external authentication server 1 failed. Please confirm the external authentication server 1 setting and the LAN environment, and try again.
DMED1F0086	0x031F0086	The process cannot be performed because the character length of password is outside the effective range. Please confirm password and try again.
DMED1F0087	0x031F0087	The process cannot be performed because the authentication test with the external authentication server 1 failed. Please confirm the user ID and password, and try again.
DMED1F0088	0x031F0088	The process cannot be performed because the authentication test with the external authentication server 2 failed. Please confirm the external authentication server 2 setting and the LAN environment, and try again.
DMED1F0089	0x031F0089	The password cannot be changed because the user authentication is RADIUS. Please change the password of RADIUS server.
DMED1F008A	0x031F008A	Cannot login because the user authentication with an external authentication server was time-out. Please confirm the external authentication server setting and the LAN environment, and try again.
DMED1F008B	0x031F008B	Cannot login because the user authentication with an external authentication server was time-out. Or the process cannot be performed because the authentication test failed. Please confirm the external authentication server setting and the LAN environment, and try again.
DMED1F008C	0x031F008C	Cannot login because the user authentication with an external authentication server was failed. Please confirm the user ID and password, and try again.
DMED1F008D	0x031F008D	The process cannot be performed because the authentication test with the external authentication server 2 failed. Please confirm the user ID and password, and try again.
DMED1F008E	0x031F008E	The process cannot be performed because the character length of user ID is outside the effective range. Please confirm user ID and try again.
DMED1F008F	0x031F008F	The process cannot be performed because the password is not set. Please specify the password, and try again.
DMED1F00A0	0x031F00A0	The process cannot be performed because the user is not Built-in account. Please login by Built-in account and try again.

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Message code	Error code	Message text/Recovery methods
DMED200001	0x03200001	The process cannot be performed because cache memory size 1GB or less. Please increase the cache memory and try again.
DMED200002	0x03200002	This function is unsupported in the single-controller system.
DMED200003	0x03200003	SnapShot cannot be installed because Cache Partition Manager is enabled. Please change Cache Partition Manager to de-installed or disabled and try again.
DMED200004	0x03020004	Cache Partition Manager cannot be installed because the subsystem is not restarted after SnapShot is installed. Please restart the subsystem, and then try again.
DMED200005	0x03200005	The option cannot be installed or enabled because cache memory size is 512MB or less. Please increase the cache memory and then try again.
DMED200006	0x03200006	The option cannot be installed or enabled because cache memory size is 2GB or less. Please increase the cache memory and then try again.
DMED200011	0x03200011	The process cannot be performed because the specified logical unit is not the reserve LU. Please specify the reserve LU and try again.
DMED200012	0x03200012	The process cannot be performed because the specified logical unit is the reserve LU. Please delete the reserve LU or specify another logical unit and try again.
DMED200013	0x03200013	The process cannot be performed because the capacity is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same capacity and try again.
DMED200014	0x03200014	The process cannot be performed because the owner controller is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same owner controller and try again.
DMED200015	0x03200015	The process cannot be performed the specified P-VOL and S-VOL have same logical unit number. Please specify the different logical unit number.
DMED200016	0x03200016	The process cannot be performed because the Volume Migration pair reached the maximum. Please cancel or split the unnecessary Volume Migration pair and try again.
DMED200017	0x03200017	The process cannot be performed because the specified P-VOL and S-VOL belong to the same RAID group. Please specify the logical units of different RAID group.
DMED200018	0x03200018	The specified pair cannot be canceled because the pair status is not waiting or copying.
DMED200019	0x03200019	The specified pair cannot be split because the pair status is not completed or error.
DMED20001A	0x0320001A	The process cannot be performed because the specified P-VOL and S-VOL are not in pairs. Please specify the P-VOL and S-VOL in pairs and try again.
DMED20001B	0x0320001B	The process cannot be performed because the reserve LU reached the maximum. Please delete the unnecessary reserve LU and try again.
DMED20001C	0x0320001C	The process cannot be performed because the specified logical unit is the S-VOL of the Volume Migration pair. Please specify another logical unit and try again.
DMED20001D	0x0320001D	The process cannot be performed because the specified logical unit is not the reserve LU. Please specify the reserve LU and try again.
DMED20001E	0x0320001E	The process cannot be performed because the P-VOL or S-VOL of the Volume Migration pair is contained. Please split the pair and try again.
DMED20001F	0x0320001F	The process cannot be performed because the reserve LU is contained. Please delete the reserve LU and try again.
DMED200020	0x03200020	The process cannot be performed because the P-VOL or S-VOL of the Volume Migration pair or the reserve LU is contained. Please split the pair or delete the reserve LU and try again.
DMED200021	0x03200021	The process cannot be performed because the owner ID is different. Please cancel the pair using the application that created the pair.
DMED200022	0x03200022	The process cannot be performed because the owner ID is different. Please split the pair using the application that created the pair.
DMED200023	0x03200023	The process cannot be performed because the specified owner ID is not supported.
DMED200024	0x03200024	The process cannot be performed because the reserve LU exists. Please delete the reserve LU and try again.
DMED200025	0x03200025	The process cannot be performed because the Volume Migration pair exists. Please cancel or split the pair and try again.
DMED200026	0x03200026	The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please restart the subsystem and then try again.

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Message code	Error code	Message text/Recovery methods
DMED200027	0x03200027	The process cannot be performed because a management area is shortage. Please delete the unnecessary pair(s) and try again.
DMED200028	0x03200028	The process cannot be performed because the specified logical unit is not the Volume Migration pair. Please specify another logical unit and try again.
DMED200029	0x03200029	The process cannot be performed because the specified logical unit is Volume Migration pair and is copying. Please retry after copy is completed.
DMED20002A	0x0320002A	The copy pace of specified pair cannot be changed because the pair status is not waiting or copying.
DMED20002B	0x0320002B	The process cannot be performed because the specified owner ID is not supported.
DMED20002C	0x0320002C	The process cannot be performed because the specified logical unit is not the P-VOL or S-VOL of the Volume Migration pair. Please specify the P-VOL or S-VOL of the Volume Migration pair and try again.
DMED20002D	0x0320002D	The specified P-VOL and S-VOL belong to same DP pool. Please specify a different DP pool and then try again.
DMED20002E	0x0320002E	The capacity of DP pool to which the specified S-VOL belongs is insufficient. Please add DP pool capacity and then try again.
DMED200030	0x03200030	The number of iSCSI connecting hosts exceeds the maximum value that can be unlocked or enabled fee-basis option. Please delete unnecessary hosts and try again.
DMED210001	0x03210001	The process cannot be performed because the mapping information is overlapped within the same host group. Please confirm the mapping information.
DMED210010	0x03210010	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED210011	0x03210011	The process cannot be performed because E-mail Error Report is enabled. Please set E-mail Error Report to disable and try again.
DMED220001	0x03220001	The process cannot be performed because the specified battery count is outside the effective range. Please confirm the battery count.
DMED220002	0x03220002	The valid battery count cannot be increased. Please specify the count equal to or less than the current valid battery count.
DMED220003	0x03220003	The process cannot be performed in the single-controller system. Please confirm the system configuration.
DMED220004	0x03220004	The new unit cannot be added because the number of units reached the maximum. Please confirm the system configuration.
DMED220005	0x03220005	The process cannot be performed because the controller or ENC is detached. Please recover the status and then try again.
DMED220006	0x03220006	The process cannot be performed because the ENC firmware is being replaced. Please retry after the replacement completes.
DMED220007	0x03220007	The process cannot be performed because the subsystem is under diagnosis process. Please retry after a while.
DMED220008	0x03220008	The process cannot be performed because the unit is being added. Please retry after the addition of unit completes.
DMED220009	0x03220009	The specified battery count cannot be set. Please specify a right battery count.
DMED230001	0x03230001	The process cannot be performed because the migration guard is set up. Please clear the migration guard and try again.
DMED230002	0x03230002	The process cannot be performed because the Migration Status is Checking. Please confirm the Migration Status and try again.
DMED230003	0x03230003	The process cannot be performed because the Migration Status is Preparing to Create Copy. Please confirm the Migration Status and try again.
DMED230004	0x03230004	The process cannot be performed because the Migration Status is Creating Copy. Please confirm the Migration Status and try again.
DMED230005	0x03230005	The process cannot be performed because the Migration Status is Auto Migration Failed. Please confirm the Migration Status and try again.
DMED230006	0x03230006	The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.

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Message code	Error code	Message text/Recovery methods
DMED230007	0x03230007	The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.
DMED230008	0x03230008	The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.
DMED230009	0x03230009	The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.
DMED230010	0x03230010	The process cannot be performed because the Migration Status is Copy Created. Please confirm the Migration Status and try again.
DMED230011	0x03230011	The process cannot be performed because the Migration Status is Switching Array. Please confirm the Migration Status and try again.
DMED230012	0x03230012	The process cannot be performed because the Migration Status is Auto Migration Completed. Please confirm the Migration Status and try again.
DMED230013	0x03230013	The process cannot be performed because the Migration Status is Switching Array Failed. Please confirm the Migration Status and try again.
DMED230014	0x03230014	The process cannot be performed because the Migration Status is In Progress. Please confirm the Migration Status and try again.
DMED230015	0x03230015	The process cannot be performed because the Migration Status is Completed. Please confirm the Migration Status and try again.
DMED230016	0x03230016	The process cannot be performed because the Migration Status is Failed. Please confirm the Migration Status and try again.
DMED230017	0x03230017	The process cannot be performed because the Migration Status is Not Started. Please confirm the Migration Status and try again.
DMED230018	0x03230018	The process cannot be performed because the Migration Status is Creating Copy Failed to Start. Please confirm the Migration Status and try again.
DMED230019	0x03230019	The process cannot be performed because the ENC firmware is being replaced. Please retry after replacement completes.
DMED230020	0x03230020	The process cannot be performed because the Migration Status is Preparing. Please confirm the Migration Status and try again.
DMED230021	0x03230021	The process cannot be performed because ShadowImage pair of Split Pending exists. Please try again when the pair status is not Split Pending.
DMED231000	0x03231000	The process cannot be performed because the subsystem is executing the Auto Migration. Please confirm the Migration Status and try again.
DMED231001	0x03231001	The process cannot be performed because the subsystem is executing the Auto Migration or the addition of unit. Please confirm the Migration Status while executing Auto Migration and try again.
DMED231002	0x03231002	Hitachi Storage Navigator Modular 2 is less than Ver.6.20. The specified equipment ID is incorrect. Please specify a right equipment ID. Hitachi Storage Navigator Modular 2 is Ver.6.20 or more. The specified array ID is incorrect. Please specify a right array ID.
DMED231003	0x03231003	The process cannot be performed because formatting is now occurring. Please retry after formatting completes.
DMED231004	0x03231004	The process cannot be performed because the specified interface board type is not equipped. Please confirm the interface board type.
DMED231005	0x03231005	The process cannot be performed because the PIN exceeded state. Please restore PIN data and try again.
DMED231006	0x03231006	The process cannot be performed because the write uncompleted LU exists. Please recover and then try again.
DMED231007	0x03231007	The process cannot be performed because the DM-LU is not defined. Please define DM-LU and try again.
DMED231008	0x03231008	The process cannot be performed because the Auto Migration is executing or is failed. Please confirm the Migration Status and try again.

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Message code	Error code	Message text/Recovery methods
DMED240001	0x03240001	The certificate and the secret key cannot be checked. Please restart the subsystem and then try again.
DMED240002	0x03240002	The process cannot be performed because the certificate is invalid. Please confirm the certificate and try again.
DMED240003	0x03240003	The process cannot be performed because the secret key is invalid. Please confirm the certificate and try again.
DMED241001	0x03241001	Hitachi Storage Navigator Modular 2 is less than Ver.6.00.
		The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed.
		Hitachi Storage Navigator Modular 2 is Ver.6.00 or more.
		The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed. And, the specified operation may not be performed even if the RAID group expansion is completed. When the RAID group expansion is completed, please retry after waiting 2 minutes or more.
DMED241002	0x03241002	The 'cancel' operation cannot be performed because the RAID group does not execute the expansion. Please confirm the RAID group and then try again.
DMED241003	0x03241003	The 'cancel' operation cannot be performed because the RAID group is executing expansion or has been executed the expansion and waiting. Please confirm the RAID group status and try again.
DMED241004	0x03241004	The 'forcibly cancel' operation cannot be performed because the RAID group does not execute the expansion and waiting. Please specify a 'cancel' operation.
DMED241005	0x03241005	The process cannot be performed because RAID group is RAID0. Please confirm RAID level and then try again.
DMED241006	0x03241006	The process cannot be performed because the number of parity groups is not 1. Please confirm the RAID group and try again.
DMED241007	0x03241007	The process cannot be performed because the specified drives contain an un-mounted drive or a blocked drive. Please confirm the drive status and try again.
DMED241008	0x03241008	The specified drive is already defined as a spare drive, or is already being used in the RAID group. Please confirm the drive status and try again.
DMED241009	0x03241009	The process cannot be performed because the number of drive is incorrect. Please specify it by an even number, when RAID level is RAID1 or RAID1+0.
DMED24100A	0x0324100A	The process cannot be performed because the number of drive is incorrect. Please specify the number of drives within the range of the combination at the RAID level.
DMED24100B	0x0324100B	The process cannot be performed because the drive type of the RAID group is different. Please confirm the drive type and try again.
DMED24100C	0x0324100C	The process cannot be performed because the capacity of specified drive is less than the minimum capacity of the RAID group drives. Please confirm the drive capacity and try again.
DMED24100D	0x0324100D	The process cannot be performed because ShadowImage pair or Remote Replication pair is not Simplex or Split, or SnapShot pair is not Simplex or Paired. Please retry after copy is completed.
DMED24100E	0x0324100E	The process cannot be performed because SnapShot pair is not Paired or Remote Replication pair is not Split. Please retry after copy is completed.
DMED24100F	0x0324100F	The process cannot be performed because some logical unit are under quick formatting. Please retry after quick formatting is completed.
DMED241010	0x03241010	The process cannot be performed because some logical unit is under parity correction. Please retry after parity correction is completed.
DMED241011	0x03241011	The process cannot be performed because the write uncompleted LU is contained. Please recover and then try again.
DMED241012	0x03241012	The process cannot be performed because the Volume Migration pair is contained. Please split the pair and try again.
DMED241013	0x03241013	The process cannot be performed because the reserve LU of the Volume Migration is contained. Please delete the reserve LU and try again.
DMED241014	0x03241014	The process cannot be performed because the Cache Residency LU or a reserved one exists. Please delete the Cache Residency LU and then try again.

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Message code	Error code	Message text/Recovery methods
DMED241016	0x03241016	The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.
DMED241017	0x03241017	The process cannot be performed because the size of LU is over 120TB or the unified LU exists. Please shrink the LU capacity and try again.
DMED241019	0x03241019	The process cannot be performed because the subsystem is not restarted, when Cache Partition Manager and SnapShot or Remote Replication is enabled. Or the process cannot be performed because cache partition modification is reserved. Please restart the subsystem and try again.
DMED24101A	0x0324101A	The process cannot be performed because ShadowImage pair of Split Pending exists. Please try again after status is changed to Split.
DMED24101B	0x0324101B	The process cannot be performed because the logical unit in regressed state is contained. Please change the state to normal and try again.
DMED241050	0x03241050	The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed.
DMED241051	0x03241051	The process cannot be performed because the LU changing occurred by the RAID group expansion. Please retry after expansion is completed.
DMED250001	0x03250001	The specified IP address is incorrect. Please specify a correct IP address.
DMED250002	0x03250002	The specified default gateway address is incorrect. Please specify a right default gateway address.
DMED250003	0x03250003	The process cannot be performed because the segment is different between the management LAN and default gateway. Please specify a correct IP address.
DMED250004	0x03250004	The process cannot be performed because the specified management LAN is same address as the linklocal management LAN. Please specify the different address and try again.
DMED250005	0x03250005	The process cannot be performed because the specified management LAN is same address as the linklocal maintenance LAN. Please specify the different address and try again.
DMED250006	0x03250006	The process cannot be performed because the specified management LAN is same address as the maintenance LAN. Please specify the different address and try again.
DMED250007	0x03250007	The process cannot be performed because the specified maintenance LAN is same address as the management LAN. Please specify the different address and try again.
DMED250008	0x03250008	The process cannot be performed because the specified maintenance LAN is same address as the linklocal management LAN. Please specify the different address and try again.
DMED250009	0x03250009	The process cannot be performed because the specified maintenance LAN is same address as the linklocal maintenance LAN. Please specify the different address and try again.
DMED25000A	0x0325000A	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED25000B	0x0325000B	The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.
DMED25000C	0x0325000C	The specified IP address is incorrect. Please specify a correct IP address.
DMED25000D	0x0325000D	The specified IP address is incorrect. Please specify a correct IP address.
DMED25000E	0x0325000E	The protocol version (IPv4/IPv6) is different between IP address of subsystem and the specified IP address of mail server. Please confirm the protocol version of the subsystem and try again.
DMED25000F	0x0325000F	The protocol version (IPv4/IPv6) is different between IP address of subsystem and the set IP address of mail server. Please confirm the protocol version of the subsystem and try again.
DMED260001	0x03260001	The specified drive is already defined as a spare drive, or is already being used in the RAID group or DP pool. Please confirm the drive status and try again.
DMED260002	0x03260002	The process cannot be performed because the DP pool exists. Please delete the DP pool and try again.
DMED260003	0x03260003	The process cannot be performed because the specified logical unit is a logical unit in the DP pool. Please specify another logical unit and try again.
DMED260004	0x03260004	The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed. Please restart the subsystem and then try again.
DMED260005	0x03260005	The number of defined logical unit reached the maximum. Please delete unnecessary logical unit and try again.

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DMED260006	0x03260006	The process cannot be performed because the specified RAID group is a RAID group in the DP pool. Please confirm the RAID group and try again.
DMED260007	0x03260007	The process cannot be performed because the logical unit which belongs to the DP pool is not normal state. Please recover the status and then try again.
DMED260008	0x03260008	The specified DP pool number has already been defined. Please specify a new number.
DMED260009	0x03260009	The process cannot be performed because the specified RAID level is not supported. Please specify the RAID level currently supported and try again.
DMED26000A	0x0326000A	The specified RAID group is already defined or used by DP pool. Please specify a new RAID group.
DMED26000B	0x0326000B	The process cannot be performed because the specified DP pool is neither in normal nor in regressed state. Please recover the status and then try again.
DMED26000C	0x0326000C	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		The process cannot be performed because the specified drive type is unknown. Please replace the drive with SAS or SATA drive and try again.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		The process cannot be performed because the non-supported drive is mounted. Please replace the drive and then try again.
DMED26000D	0x0326000D	The process cannot be performed because the capacity of specified drive is not supported. Please replace the drive currently supported and try again.
DMED26000E	0x0326000E	The specified DP pool cannot be deleted. Please specify another DP pool.
DMED26000F	0x0326000F	The number of defined RAID group reached the maximum. Please delete unnecessary RAID group and try again.
DMED260010	0x03260010	The process cannot be performed because the subsystem is not restarted after Dynamic Provisioning is installed. Please restart the subsystem and then try again.
DMED260011	0x03260011	The process cannot be performed because combination of the RAID level and the number of drive does not match. Please confirm combination of the RAID level or the number of drive and try again.
DMED260012	0x03260012	The specified DP pool is not defined. Please specify a defined DP pool and then try again.
DMED260013	0x03260013	The process cannot be performed because the specified DP pool is neither in normal state. Please recover the status and then try again.
DMED260014	0x03260014	The number of drives reach the maximum. Please confirm the number of drives.
DMED260015	0x03260015	The process cannot be performed because the logical unit exists in the DP pool. Please delete the logical unit in the DP pool and then try again.
DMED260016	0x03260016	The process cannot be performed because the drive recovery is in progress. Please retry after drive recovery completes.
DMED260017	0x03260017	The process cannot be performed because the drive firmware is being replaced. Please retry after replacement completes.
DMED260018	0x03260018	The early alert of DP pool consumed capacity alert is equal to or more than the depletion alert. Please confirm the values and try again.
DMED260019	0x03260019	The warning of over provisioning threshold is equal to or more than the limit. Please confirm the values and try again.
DMED26001A	0x0326001A	The process cannot be performed because the combination of drive type and drive capacity does not match. Please confirm the drive type or the drive capacity, and try again.
DMED26001B	0x0326001B	There is no drive which can be used. Please confirm the number of drives and try again.
DMED26001C	0x0326001C	The process cannot be performed because specified logical unit is not a logical unit in the DP pool. Please specify an logical unit in the DP pool and then try again.
DMED26001D	0x0326001D	The process cannot be performed because cache memory size is 2GB or less. Please increase a larger cache memory than 4GB and then try again.
DMED26001E	0x0326001E	The process cannot be performed because cache memory size is 2GB or less. Please increase a larger cache memory than 4GB and then try again.
DMED26001F	0x0326001F	The process cannot be performed because the status of DP pool consumed capacity is depletion alert over or capacity depleted. Please confirm the DP pool consumed capacity and then try again.

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Message code	Error code	Message text/Recovery methods
DMED260020	0x03260020	The process cannot be performed because the DP pool consumed capacity is not normal state. Please confirm the DP pool consumed capacity and then try again.
DMED260021	0x03260021	The process cannot be performed because the combination of RAID level and number of drives does not match. Please confirm the number of drives and then try again.
DMED260022	0x03260022	The process cannot be performed because different drives are specified. Please confirm the drive type and then try again
DMED260023	0x03260023	The process cannot be performed because there are some logical units that are not normal or skip state of the parity correction. Please retry after changing to normal state.
DMED260024	0x03260024	The process cannot be performed because the drive type of the DP pool is different. Please confirm the drive type and then try again.
DMED260025	0x03260025	The process cannot be performed because the combination of stripe size and segment size does not match. Please confirm the stripe size or the cache partition and then try again.
DMED260026	0x03260026	The process cannot be performed because the combination of the number of drives and the combination does not match. Please confirm the number of drives and the combination and then try again.",
DMED260027	0x03260027	The process cannot be performed because the capacity of DP pool will exceed the maximum. Please delete unnecessary DP pools and then try again.
DMED260028	0x03260028	The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.
DMED260029	0x03260029	The process cannot be performed because the DP optimization state of the specified logical unit in DP pool or the logical units in DP pool that has specified logical unit is neither in Normal state nor in Failed state. Please wait for completion of DP optimization or cancel DP optimization and then try again.
DMED26002A	0x0326002A	The process cannot be performed because the DP optimization state of logical unit in DP pool is not Normal. Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.
DMED26002B	0x0326002B	The process cannot be performed because the capacity of DP pool for performing DP optimization is insufficient. Please add capacity of DP pool for performing DP optimization and then try again.
DMED26002C	0x0326002C	The process cannot be performed because specified logical unit in DP pool or the logical units in DP pool that has specified logical unit contains the write uncompleted logical unit. Please recover and then try again.
DMED26002D	0x0326002D	It is not necessary to cancel because DP optimization state of the logical unit in specified DP pool or the logical unit in DP pool containing specified logical unit is already optimizing or canceling.
DMED26002E	0x0326002E	The process cannot be performed because DP optimization state of the logical unit in DP pool is not normal. Please confirm DP optimization state of the logical unit in DP pool and then try again.
DMED26002F	0x0326002F	The process cannot be performed because specified logical unit in DP pool contains the write uncompleted logical unit. Please recover and then try again.
DMED260030	0x03260030	The process cannot be performed because status of the logical unit in specified DP pool or the logical unit in DP pool containing specified logical unit is neither in Normal state nor in Regression state. Please recover the logical unit and then try again.
DMED260031	0x03260031	The process cannot be performed because ShadowImage pair of Simplex state exists in specified DP pool. Please release the pair and then try again.
DMED260032	0x03260032	The process cannot be performed because specified logical unit in DP pool or the logical units in DP pool that has specified logical unit is in the PIN exceeded state. Please recover and then try again.
DMED260033	0x03260033	The process cannot be performed because state of the DP pool which contains the specified logical unit is Detached. Please recover and then try again.
DMED260034	0x03260034	The process cannot be performed because status the logical unit in the specified DP pool is in Normal state nor in Regression state. Please recover the logical unit and then try again.
DMED260035	0x03260035	The process cannot be performed because specified logical unit in DP pool is in the PIN exceeded state. Please recover and then try again.
DMED260036	0x03260036	The process cannot be performed because the updating of DP management information is in progress. Please wait a moment and then try again.

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Message code	Error code	Message text/Recovery methods
DMED260037	0x03260037	The capacity of DP pool to which the specified P-VOL belongs is insufficient. Please add DP pool capacity and then try again.
DMED260038	0x03260038	The process cannot be performed because the subsystem is not restarted after DP capacity mode is changed. Please restart the subsystem and then try again.
DMED260039	0x03260039	The process cannot be performed because the capacity of DP pool will exceed the maximum. Please restart the subsystem and then try again.
DMED26003A	0x0326003A	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed, or Advanced Security Mode is changed. Please restart the subsystem and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed, or DP capacity mode is changed. Please restart the subsystem and then try again.
DMED26003B	0x0326003B	The process cannot be performed because Remote Replication pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.
DMED26003C	0x0326003C	The process cannot be performed because Remote Replication pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.
DMED26003D	0x0326003D	The process cannot be performed because SnapShot pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.
DMED26003E	0x0326003E	The process cannot be performed because the data pool exists in specified DP pool. Please delete the data pool and try again.
DMED270000	0x03270000	A memory reconfiguration of fee-basis option is required to confirm a setup.
DMED270001	0x03270001	The process cannot be performed because the memory reconfiguration is in progress. Please try again after the memory reconfiguration is completed.
DMED270002	0x03270002	The process cannot be performed because the memory reconfiguration is failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.
DMED270003	0x03270003	The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after the option using data pool is installed or enabled. Please try again after restarting the subsystem or executing the memory reconfiguration.
DMED270004	0x03270004	The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after the option using data pool or Dynamic Provisioning is installed, de-installed, enabled, or disabled. Please try again after restarting the subsystem or executing the memory reconfiguration.
DMED270005	0x03270005	The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after Dynamic Provisioning is installed or enabled. Please try again after restarting the subsystem or executing the memory reconfiguration.
DMED270006	0x03270006	The process cannot be performed because the memory reconfiguration to use data pool is failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.
DMED270007	0x03270007	The process cannot be performed because the memory reconfiguration to use Dynamic Provisioning failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.
DMED270008	0x03270008	It is not necessary to reconfigure memory because the memory reconfiguration is completed.
DMED270009	0x03270009	The memory reconfiguration is in progress already. Please try again after memory reconfiguration is completed, when required.
DMED27000A	0x0327000A	The process cannot be performed because the status of ShadowImage pair is Synchronizing, Split Pending, or Paired Internally Synchronizing, or Volume Migration pair is copying. Please retry after copy is completed.
DMED27000B	0x0327000B	The process cannot be performed because the status of SnapShot pair is Synchronizing. Please retry after copy is completed.
DMED27000C	0x0327000C	The process cannot be cancel because reconfiguring memory is not started.
DMED27000D	0x0327000D	The reconfigure memory cannot be aborted. Please wait until the reconfigure memory is completed.
DMED27000E	0x0327000E	The process cannot be performed because DP pool under formatting exists. Retry after formatting completes.

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Message code	Error code	Message text/Recovery methods
DMED27000F	0x0327000F	The reconfigure memory cannot be performed because the capacity of Cache Residency LU is large. Please release a Cache Residency LU or set a Cache Residency LU to small capacity LU and restart the subsystem.
DMED270010	0x03270010	Hitachi Storage Navigator Modular 2 is less than Ver.11.75.
		The process cannot be performed because the capacity of DP pool is insufficient. Please grow the capacity of DP pool, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.11.75 or more.
		The process cannot be performed because the capacity of DP pool is insufficient or over the depletion alert value of DP pool consumed capacity alert. Please grow the capacity of DP pool or change the depletion alert value of DP pool consumed capacity alert, and try again.
DMED270011	0x03270011	The process cannot be performed because Full Capacity Mode of the specified logical unit is enabled. Please set Full Capacity Mode to disable, and try again.
DMED270012	0x03270012	The process cannot be performed because Full Capacity Mode of the specified logical unit is in progress. Please retry after the process completes.
DMED270013	0x03270013	The process cannot be performed because the logical unit to which Full Capacity Mode in specified DP pool is in progress exists. Please retry after the process completes.
DMED270014	0x03270014	The Accelerated Wide Striping Mode and the Full Capacity Mode cannot be specified to enable at the same time. Please set Accelerated Wide Striping Mode or the Full Capacity Mode to disable, and try again.
DMED270015	0x03270015	The process cannot be performed because the Full Capacity Mode is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same Full Capacity Mode and try again.
DMED270016	0x03270016	The process cannot be performed because the Full Capacity Mode of specified logical unit is different from the data pool. Please confirm the Full Capacity Mode and try again.
DMED270017	0x03270017	The process cannot be performed because the capacity of specified DP pool is insufficient. Please set the Full Capacity Mode to disable, or please retry after formatting of DP pool is completed.
DMED270018	0x03270018	The Full Capacity Mode cannot be specified to enable because the capacity of DP pool to which the specified logical unit belongs is insufficient. Please retry after formatting of DP pool is completed.
DMED270019	0x03270019	The process cannot be performed because the over provisioning threshold of the DP pool that has the specified logical unit will be equal to or more than the limit. Please add DP pool capacity and then try again.
DMED280000	0x03280000	The backup information of the Master Authentication Key was created.
DMED280001	0x03280001	The process cannot be performed because the refreshing of the authentication key is in progress. The refreshing is completed, then try again.
DMED280004	0x03280004	The SAS(SED) drives are mounted. Please remove the SAS(SED) drives, and try again.
DMED280005	0x03280005	The sum check error of the master key. Please confirm specified value, and try again.
DMED280006	0x03280006	Failed to back up the master authentication key. Please wait for a while and then try again.
DMED280009	0x03280009	The process cannot be performed because the RAID group whose drive type is SAS(SED) is defined. Please delete RAID group, and try again.
DMED28000A	0x0328000A	The process cannot be performed because the DP pool whose drive type is SAS(SED) is defined. Please delete DP pool, and try again.
DMED28000B	0x0328000B	The process cannot be performed because the spare drive whose drive type is SAS(SED) is defined. Please release spare drive, and try again.
DMED28000C	0x0328000C	The specified password or restore information is invalid. Please confirm specified value, and try again.
DMED28000D	0x0328000D	The specified restore information is invalid. Please confirm specified value, and try again.
DMED28000E	0x0328000E	Failed to back up the master authentication key. Please wait for a while and then try again.
DMED28000F	0x0328000F	The drive under Authenticating SEDs exists. Please retry after authenticating completes.
DMED280010	0x03280010	The process cannot be performed because the RAID group contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.
DMED280011	0x03280011	The process cannot be performed because the DP pool contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.
DMED280012	0x03280012	The process cannot be performed because the spare drive contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.
DMED280013	0x03280013	The process cannot be performed because the serial number of the specified file is different from the subsystem. Please confirm the file name, and try again.

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Message code	Error code	Message text/Recovery methods
DMED280014	0x03280014	The process cannot be performed because the restoreation information on the specified file is older than that of the subsystem. Please confirm the file name, and try again.
DMED280015	0x03280015	The process cannot be performed because the dummy file is specified. Please confirm the file name, and try again.
DMED280016	0x03280016	The process cannot be performed because the authentication is not executed. Please restore the master authentication key, and try again.
DMED300001	0x03300001	The serial number or equipment ID cannot be changed because the path and pair information does not exist.
DMED300002	0x03300002	The serial number or equipment ID cannot be changed because the path and pair information does not exist.
DMED300005	0x03300005	The specified serial number or equipment ID is incorrect. Please specify it in 0-9.
DMED300006	0x03300006	The specified serial number is incorrect. Please specify a right serial number.
DMED300007	0x03300007	The specified serial number is incorrect. Please specify a right serial number.
DMED300008	0x03300008	0 is specified as 6 figures of low order of the serial number. Please specify a right serial number.
DMED300009	0x03300009	The same serial number as a self subsystem is specified. Please specify the serial number of connected subsystem.
DMED30000A	0x0330000A	The same equipment ID as a self subsystem is specified. Please specify the equipment ID of connected subsystem.
DMED30000B	0x0330000B	The process cannot be performed because the fibre channel port is not equipped. Please confirm the port type and try again.
DMED30000C	0x0330000C	A value differs from current value is specified as 1 figures of high order of the serial number or equipment ID. Please specify a right serial number or equipment ID.
DMED30000D	0x0330000D	The process cannot be performed because the specified array ID is not set to Remote Replication pair, remote path or remote port CHAP information (Target information). Please confirm the array ID and try again.
DMED30000E	0x0330000E	The array ID before and behind change is the same. Please specify a right array ID.
DMED3B0011	0x033B0011	Hitachi Storage Navigator Modular 2 is less than Ver.4.3.
		The firmware cannot be downgraded because the interface board of iSCSI is equipped. Please change the interface boards to fibre channel and try again.
		Hitachi Storage Navigator Modular 2 is Ver.4.3 or more.
		The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.
DMED3B0012	0x033B0012	The firmware cannot be downgraded because the segment size of 64KB or more is set up. Please confirm the cache partition and try again.
DMED3B0013	0x033B0013	The firmware cannot be downgraded because the stripe size other than 64KB is set up. Please confirm the stripe size of logical unit and try again.
DMED3B0014	0x033B0014	The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.
DMED3B0015	0x033B0015	The firmware cannot be downgraded because the subsystem is not restarted after the option using data pool is unlocked or enabled. Please restart the subsystem and then try again.
DMED3B0016	0x033B0016	The firmware cannot be downgraded because the target(s) or CHAP user(s) is not initialized. Please initialize the target(s) and CHAP user(s) and try again.
DMED3B0018	0x033B0018	The firmware cannot be downgraded because the pair with MU number other than 0 exists in S-VOL of ShadowImage. Please cancel the pair with MU number other than 0 and try again.
DMED3B0019	0x033B0019	The firmware cannot be downgraded because the pair with MU number of 14 or more exists in SnapShot logical unit. Please cancel the pair with MU number of 14 or more and try again.
DMED3B001A	0x033B001A	The firmware cannot be downgraded because P-VOL with 15 or more SnapShot logical unit exists. Please delete SnapShot logical unit to 14 or less, and try again.
DMED3B001B	0x033B001B	The firmware cannot be downgraded because the user LU is being used as the pair of Remote Replication. Please cancel the pair and try again.
DMED3B001C	0x033B001C	The firmware cannot be downgraded because the migrated logical unit exists. Please migrate again.
DMED3B001D	0x033B001D	The firmware cannot be downgraded because Volume Migration is installed. Please de-install the option and try again.

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DMED3B001E	0x033B001E	The firmware cannot be downgraded because Remote Replication is unlocked. Please lock the option and try again.
DMED3B001F	0x033B001F	The firmware cannot be downgraded because Account Authentication is installed. Please de-install the option and try again.
DMED3B0020	0x033B0020	The firmware cannot be downgraded because Power Saving is installed. Please de-install the option and try again.
DMED3B0021	0x033B0021	The firmware cannot be downgraded because the NNCtype2 is equipped. Please confirm the configuration.
DMED3B0022	0x033B0022	The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.
DMED3B0023	0x033B0023	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The firmware cannot be downgraded because the 8Gbps fibre interface board is equipped. Please retry by using firmware in relation to this interface board.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.
		The firmware cannot be downgraded because the 8Gbps fibre interface board is equipped. Please retry by using firmware in relation to this interface board.
DMED3B0024	0x033B0024	The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.
DMED3B0025	0x033B0025	The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.
DMED3B0100	0x033B0100	The process cannot be performed because the firmware is being replaced. Please wait a moment and then try again.
DMED3B0101	0x033B0101	The process cannot be performed because the firmware is being replaced. Please wait a moment and then try again.
DMED3B0102	0x033B0102	The process cannot be performed because the system drive type is unknown. Please replace the system drive with SAS or SATA drive and try again.
DMED3B0103	0x033B0103	The firmware replacement cannot be performed because the controller 1 is specified. Please replace the firmware from the controller 0. Or the subsystem may have been rebooted during the firmware replacement. Please replace the firmware again, if the firmware revision is not matched between both controllers.
DMED3B0104	0x033B0104	The firmware replacement cannot be performed because firmware replacement of another controller is not completed and the access from hosts is not received. Please perform firmware replacement of this controller again after performing firmware replacement of another controller and completing.
DMED3B0106	0x033B0106	The firmware cannot be downgraded because in the I/O Switch ShadowImage pairs that share the P-VOL, the pair of Paired exists. Please change the ShadowImage I/O Switch Mode to disable or change to states other than Paired and try again.
DMED3B0107	0x033B0107	The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.
DMED3B010A	0x033B010A	The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.
DMED3B0201	0x033B0201	The process cannot be performed because Data Retention Utility is installed. Please de-install the option and try again.
DMED3B0301	0x033B0301	Failed to download the ENC firmware. Please replace the controller that is detached and try again.
DMED3C1101	0x033C1101	The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.
DMED3C1164	0x033C1164	The firmware cannot be downgraded because the non-supported controller is equipped on the downgraded version. Please retry by using firmware in relation to this controller.
DMED3C1211	0x033C1211	The firmware cannot be downgraded because the RAID group expansion is now occurring or the RAID group containing unified LU is executed expansion. Please retry after expansion is completed.

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Message code	Error code	Message text/Recovery methods
DMED3C1212	0x033C1212	Hitachi Storage Navigator Modular 2 is less than Ver.6.10. The firmware cannot be downgraded because ShadowImage pair is undergoing resynchronization with Quick Mode. Please retry after the resynchronization is completed. Hitachi Storage Navigator Modular 2 is Ver.6.10 or more. The firmware cannot be downgraded because ShadowImage pair of Split Pending or Paired Internally Synchronizing exists. Please retry after status is changed to Split or Paired.
DMED3C1214	0x033C1214	The firmware cannot be downgraded because the Dense Units are connected. Please retry after removing the Dense units or by using another firmware.
DMED3C1215	0x033C1215	The firmware cannot be downgraded because S-VOL of ShadowImage pair is under formatting. Please retry after formatting is completed.
DMED3C1216	0x033C1216	The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.
DMED3C1217	0x033C1217	The firmware cannot be downgraded because Distributed Mode is Hub. Please change the Distributed Mode to Edge and try again.
DMED3C1218	0x033C1218	The firmware cannot be downgraded because Dynamic Provisioning is installed. Please change Dynamic Provisioning to de-installed and try again.
DMED3C1219	0x033C1219	The firmware cannot be downgraded because the user whose user authentication is RADIUS exists. Please delete the user whose user authentication is RADIUS and try again.
DMED3C121A	0x033C121A	The firmware cannot be downgraded because the number of registered account exceeded the maximum value that can be supported on the downgraded version. Please confirm the number of registered account and try again.
DMED3C121B	0x033C121B	The firmware cannot be downgraded because the command device that uses the logical unit in the DP pool exists. Please release the command device that uses the logical unit in the DP pool and try again.
DMED3C121C	0x033C121C	The firmware cannot be downgraded because the DM-LU that uses the logical unit in the DP pool exists. Please release the DM-LU that uses the logical unit in the DP pool and try again.
DMED3C121F	0x033C121F	The firmware cannot be downgraded because the number of connected subsystem exceeded the maximum value that can be supported on the downgraded version. Please remove drives or use another firmware and then try again.
DMED3C1220	0x033C1220	The firmware cannot be downgraded because the volume migration pair that uses the logical unit in the DP pool exists. Please release the pair and try again.
DMED3C1221	0x033C1221	The firmware cannot be downgraded because the state of DP optimization is optimizing. Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.
DMED3C1222	0x033C1222	The firmware cannot be downgraded because SSD is mounted. Please remove SSD or use another firmware and then try again.
DMED3C1223	0x033C1223	The firmware cannot be downgraded because the number of connected Dense units exceeded the maximum value that can be supported on the downgraded version. Please remove the Dense units or use another firmware and then try again.
DMED3C1224	0x033C1224	The firmware cannot be downgraded because the updating of DP management information is in progress. Please wait a moment and then try again.
DMED3C1225	0x033C1225	The firmware cannot be downgraded because Advanced Security Mode is enabled. Please change Advanced Security Mode to disabled and try again.
DMED3C1227	0x033C1227	The firmware cannot be downgraded because the SAS drives are mounted in the Dense Units. Please remove the SAS drives or use another firmware and then try again.
DMED3C1228	0x033C1228	The firmware cannot be downgraded because remote paths are set to an array whose H/W revision is 0200. Please delete remote paths and try again.
DMED3C1229	0x033C1229	The firmware cannot be downgraded because the logical unit in DP pool exists in a data pool. Please delete the data pool and then try again.

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Message code	Error code	Message text/Recovery methods
DMED3C122A	0x033C122A	The firmware cannot be downgraded because the logical unit in the DP pool is SnapShot pair. Please cancel the pair and then try again.
DMED3C122B	0x033C122B	The firmware cannot be downgraded because the logical unit in the DP pool is Remote Replication pair. Please cancel the pair and then try again.
DMED3C122C	0x033C122C	The firmware cannot be downgraded because the SAS7K drives are mounted. Please remove the SAS7K drives or use another firmware and then try again.
DMED3C122D	0x033C122D	The firmware cannot be downgraded because specified firmware is not supported on this subsystem. Please use the firmware which supported on this subsystem.
DMED3C122E	0x033C122E	The firmware cannot be downgraded because the memory reconfiguration is in progress or is failed. Please try again, after the memory reconfiguration is completed. When the memory reconfiguration is failed, please remove the cause of the error.
DMED3C122F	0x033C122F	The firmware cannot be downgraded because DP capacity mode is Maximum Capacity. Please change the DP capacity mode to Regular Capacity and try again.
DMED3C1230	0x033C1230	The firmware cannot be downgraded because in the ShadowImage pairs that share the P-VOL, more than two ShadowImage pairs are Paired, Synchronizing, Paired Internally Synchronizing, or Split Pending. Please split the remaining pairs after specifying one pair which continues a copy and try again.
DMED3C1231	0x033C1231	The firmware cannot be downgraded because in the ShadowImage pairs that share the P-VOL, the pair of Failure(S-VOL Switch) exists. Please cancel the ShadowImage pair of Failure(S-VOL Switch) and try again.
DMED3C1232	0x033C1232	The firmware cannot be downgraded because the RAID group which specified I/O monitoring time of Power Saving exists. When the state of Power Saving is Normal(Command Monitoring), please spin down after specifying 0 to I/O monitoring time and try again. When Power Saving does not need to be performed, please spin up and try again.
DMED3C1233	0x033C1233	The firmware cannot be downgraded because DP pool of the stripe size 64KB exists. Please delete DP pool of the stripe size 64KB and try again.
DMED3C1234	0x033C1234	The firmware cannot be downgraded because specified firmware is not supported on this subsystem. Please use the firmware which supported on this subsystem.
DMED3C1235	0x033C1235	The firmware cannot be downgraded because the logical unit to which Full Capacity Mode is enabled exists. Please disable Full Capacity Mode, and try again.
DMED3C1236	0x033C1236	The firmware cannot be downgraded because SAS(SED) drives are mounted. Please remove SAS(SED) drives or use another firmware and then try again.
DMED3C1237	0x033C1237	The firmware cannot be downgraded because the Standard(SFF) Units are connected. Please retry after removing the Standard(SFF) units or by using another firmware.
DMED3C1238	0x033C1238	The firmware cannot be downgraded because the DP pool is in progress. Please wait a moment and then try again.
DMED3C1239	0x033C1239	The firmware cannot be downgraded because P-VOL of ShadowImage and P-VOL of SnapShot is same logical unit or S-VOL of ShadowImage and P-VOL of SnapShot is the same logical unit. Please cancel the ShadowImage pair or SnapShot pair and try again.
DMED3C123B	0x033C123B	The firmware cannot be downgraded because Data At Rest Encryption is installed. Please change Data At Rest Encryption to de-installed and try again.
DMED3C123C	0x033C123C	The firmware cannot be downgraded because the ShadowImage pair whose MU number is 8 or more, or the SnapShot pair whose MU number is 32 or more exists. Please cancel the pair and try again.
DMED3C123D	0x033C123D	The firmware cannot be downgraded because over 2TB SATA drives are mounted. Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.
DMED3C123E	0x033C123E	The firmware cannot be downgraded because over 2TB SATA drives are mounted. Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.
DMED3C123F	0x033C123F	The firmware cannot be downgraded because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.
DMED3C12FE	0x033C12FE	The firmware cannot be downgraded because tape group backed up by append write exists. Please delete or discard tape groups, and try again.

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Message code	Error code	Message text/Recovery methods
DMED3C12FF	0x033C12FF	The firmware cannot be downgraded because tape group targeted differential backup or backed up differential exists. Please delete tape groups, and try again.
DMED3C1240	0x033C1240	The firmware cannot be downgraded because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.
DMED3D0001	0x033D0001	The process cannot be performed because the drive firmware is being replaced. Please retry after replacement completes.
DMED400001	0x03400001	The process cannot be performed because the specified logical units contain an unformatted LU. Confirm the logical unit status and try again.
DMED400002	0x03400002	The process cannot be performed because the specified logical units contain V-VOL of Snapshot. Confirm the logical unit status and try again.
DMED400003	0x03400003	The process cannot be performed because some logical units are under quick formatting. Confirm the logical unit status and try again.
DMED400004	0x03400004	The process cannot be performed because the specified logical units contain a Sub LU of the unifying Lus. Confirm the logical unit status and try again.
DMED400005	0x03400005	The process cannot be performed because the specified logical units contain an invalid LU. Confirm the logical unit status and try again.
DMED400006	0x03400006	The specified LUs contain regressed LU. Confirm the LU status and try again.
DMED400007	0x03400007	The process cannot be performed because ShadowImage, Remote Replication, or SnapShot is in progress. Please wait a moment and then try again.
DMED400008	0x03400008	The operation of 'start' or 'skip', and 'cancel' is specified at the same time. Confirm the operation and try again.
DMED400009	0x03400009	The process cannot be performed because the specified logical units contain an undefined LU. Confirm the logical unit status and try again.
DMED400011	0x03400011	The process cannot be performed because parity correction is not completed. Please try again, after it is completed.
DMED400012	0x03400012	The process cannot be performed because parity correction is not executed or is aborted. Please try again, after it is completed.
DMED400013	0x03400013	The process cannot be performed because parity correction is not completed. Please try again, after it is completed.
DMED400014	0x03400014	The process cannot be performed because parity correction is not completed. Please try again, after it is completed.
DMED400015	0x03400015	The process cannot be performed because parity correction is not executed or is aborted. Please try again, after it is completed.
DMED400021	0x03400021	The 'cancel' operation cannot be specified to the uncorrected logical units. Confirm the parity correction status and try again.
DMED400022	0x03400022	The 'start' operation cannot be specified to the aborted logical units. Confirm the parity correction status and try again.
DMED400023	0x03400023	The 'cancel' operation cannot be specified to the aborted logical units. Confirm the parity correction status and try again.
DMED400024	0x03400024	The 'start' operation cannot be specified to the correcting logical units. Confirm the parity correction status and try again.
DMED400025	0x03400025	The 'skip' operation cannot be specified to the correcting logical units. Confirm the parity correction status and try again.
DMED400026	0x03400026	The 'start' operation cannot be specified to the waiting logical units. Confirm the parity correction status and try again.
DMED400027	0x03400027	The 'skip' operation cannot be specified to the waiting logical units. Confirm the parity correction status and try again.
DMED400028	0x03400028	The 'cancel' operation cannot be specified to the skipped logical units. Confirm the parity correction status and try again.
DMED400029	0x03400029	The 'cancel' operation cannot be specified to the corrected logical units. Confirm the parity correction status and try again.
DMED40002A	0x0340002A	The logical units are under quick formatting. Please the parity correction status and try again.

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DMED500001	0x03500001	The command device is not registered. Please register the command device and try again.
DMED600001	0x03600001	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMED700001	0x03700001	The specified logical unit is not defined. Specify a defined logical unit.
DMED700002	0x03700002	The process cannot be performed because the status of pair is Simplex(SMPL). Confirm the LU status and try again.

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Message code	Error code	Message text/Recovery methods
DMED800002	0x03800002	A parameter error occurred. Please confirm the specified parameter.
DMED800004	0x03800004	The specified NNC number is not NAS port. Please confirm the port type.
DMED800005	0x03800005	The process cannot be performed because BIOS is being updated. The updating is completed, then try again.
DMED800006	0x03800006	The process cannot be performed because NAS OS is not ready or booting, or it is not in shutdown process. Please confirm NAS OS status and then try again.
DMED800007	0x03800007	The process cannot be performed because BIOS is being updated. The updating is completed, then try again.
DMED800008	0x03800008	The process cannot be performed because the install of the NAS OS is not completed. Please try again after install is completed.
DMED800009	0x03800009	The process cannot be performed because the alternative NNC is not active. Please confirm NNC status and try again.
DMED800011	0x03800011	The process cannot be performed because NAS OS is loading. Please stop NAS OS, then try again.
DMED800013	0x03800013	The process cannot be performed because NAS OS is in shutdown process. Shutdown process is completed, then try again.
DMED800014	0x03800014	The process cannot be performed because NAS dump is being collected. The collection is completed, then try again.
DMED800015	0x03800015	The process cannot be performed because System LU is not defined. Please define System LU and then try again.
DMED800016	0x03800016	The time out occurred during install. Please turn off NNC breaker and turn on it, then try again.
DMED800017	0x03800017	The time out occurred during install. Please turn off NNC breaker and turn on it, then try again.
DMED800019	0x03800019	The process cannot be performed because NAS OS is not in stopped state. Please stop NAS OS, then try again.
DMED80001A	0x0380001A	The process cannot be performed because BIOS is being updated. The updating is completed, then try again.
DMED80001B	0x0380001B	The process cannot be performed because NAS OS is detached. Please recover NAS OS status and then try again.
DMED800020	0x03800020	The specified IP address is incorrect. Please specify a correct IP address.
DMED800021	0x03800021	The specified number is incorrect. Please specify a correct number.
DMED800022	0x03800022	The specified MTU is incorrect. Please specify a correct MTU.
DMED800023	0x03800023	The specified negotiation is incorrect. Please specify a correct negotiation.
DMED800024	0x03800024	The process cannot be performed because NAS OS is not ready. Please confirm NAS OS status and then try again.
DMED800025	0x03800025	The process cannot be performed during NNC LAN setting. Please confirm NAS OS status and then try again.
DMED800026	0x03800026	The same IP address as the management LAN of the subsystem cannot be set up. Please specify a correct IP address.
DMED800027	0x03800027	The specified time zone does not have daylight saving time. Please confirm the time zone.
DMED800029	0x03800029	The process cannot be performed because the MTU value of NNC does not match. Please set up the same MTU value.
DMED800030	0x03800030	The process cannot be performed because specified IP address is same as the current IP address of alternative NNC. Please specify another IP address and try again.
DMED900006	0x03900006	The process cannot be performed because the data set does not exist. Please confirm the data set.
DMED901101	0x03901101	The process cannot be performed because the copy or restoration is in progress in the backup group. Please confirm the status of the tape group in the backup group.
DMED901102	0x03901102	The process cannot be performed because the status of another tape group in the backup group is illegal. Please confirm the status of the tape group in the backup group.
DMED908002	0x03908002	The process cannot be performed because Tape Replication is installed. Please change Tape Replication to de-installed and then try again.
DMED908003	0x03908003	The process cannot be performed because the restoration is in progress. Please try again, after it is completed. Or, please cancel it and then try again.
DMED909113	0x03909113	The process cannot be performed because the version is unmatch between the micro program and the Storage Navigator Modular. Please match the version.

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Message code	Error code	Message text/Recovery methods
DMED909134	0x03909134	The tape group detail information is invalid.
DMED909135	0x03909135	The tape group detail information is invalid.
DMED909136	0x03909136	The tape group detail information is invalid.
DMED909137	0x03909137	The tape group detail information is invalid.
DMED909138	0x03909138	The tape group detail information is invalid.
DMED909139	0x03909139	The tape group detail information is invalid.
DMED909140	0x03909140	The tape group detail information is invalid.
DMED909141	0x03909141	The tape group detail information is invalid.
DMED909142	0x03909142	The tape group detail information is invalid.
DMED909143	0x03909143	The tape group detail information is invalid.
DMED909144	0x03909144	The tape information is invalid.
DMED909145	0x03909145	The tape information is invalid.
DMED909146	0x03909146	The tape information is invalid.
DMED9091FF	0x039091FF	An internal program error occurred in the Tape Replication function. Contact the service personnel.
DMED909201	0x03909201	The data set detail information is invalid.
DMED909202	0x03909202	The data set detail information is invalid.
DMED909203	0x03909203	The data set detail information is invalid.
DMED909204	0x03909204	The data set detail information is invalid.
DMED909205	0x03909205	The data set detail information is invalid.
DMED909206	0x03909206	The data set detail information is invalid.
DMED909207	0x03909207	The data set detail information is invalid.
DMED909208	0x03909208	The data set detail information is invalid.
DMED909209	0x03909209	The data set detail information is invalid.
DMED90920A	0x0390920A	The data set detail information is invalid.
DMED90920B	0x0390920B	The data set detail information is invalid.
DMED90920C	0x0390920C	The data set detail information is invalid.
DMED90920D	0x0390920D	The data set detail information is invalid.
DMED90920E	0x0390920E	The data set detail information is invalid.
DMED90920F	0x0390920F	The data set detail information is invalid.
DMED909210	0x03909210	The data set detail information is invalid.
DMED909211	0x03909211	The data set detail information is invalid.
DMED909212	0x03909212	The data set detail information is invalid.
DMED909213	0x03909213	The process failed due to an invalid parameter. Confirm the specified value.
DMED909214	0x03909214	The data set detail information is invalid.
DMED909221	0x03909221	The process cannot be performed because the TR constitution file version is incorrect. Please specify a correct file.
DMED909222	0x03909222	The data set number is doubled.
DMED909223	0x03909223	The process cannot be performed because other users changed the TR constitution information. Please wait for a while and then try again.
DMED909224	0x03909224	The process cannot be performed because other users changed the TR constitution information. Please wait for a while and then try again.
DMED909225	0x03909225	The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape groups.
DMED909226	0x03909226	The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape groups.
DMED90B018	0x0390B018	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B066	0x0390B066	The process cannot be performed because the TR constitution restoration is in progress. Please try again, after it is completed.
DMED90B06E	0x0390B06E	An internal program error occurred in the Tape Replication function. Contact the service personnel.

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Message code	Error code	Message text/Recovery methods
DMED90B0C8	0x0390B0C8	The process failed due to an invalid parameter. Confirm the specified value.
DMED90B0C9	0x0390B0C9	The process cannot be performed because the logical unit is not targeted differential backup. Please confirm the logical unit.
DMED90B0CB	0x0390B0CB	The process cannot be performed because the specified tape group has set to not backup by append write. Please specify another tape group and then try again.
DMED90B0CC	0x0390B0CC	The process cannot be performed because the logical unit is not used by this differential backup. Please confirm the logical unit.
DMED90B0CD	0x0390B0CD	The process cannot be performed because the copy is in progress in the tape group. Please try again, after it is completed.
DMED90B0CE	0x0390B0CE	The process cannot be performed because the number of logical units in the tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.
DMED90B0D0	0x0390B0D0	The process cannot be performed because the number of data sets in the system reached the maximum. Please discard unnecessary tape groups or data sets.
DMED90B0D2	0x0390B0D2	The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape group.
DMED90B0D3	0x0390B0D3	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D4	0x0390B0D4	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D5	0x0390B0D5	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D6	0x0390B0D6	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D7	0x0390B0D7	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D8	0x0390B0D8	The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.
DMED90B0D9	0x0390B0D9	The process cannot be performed because the number of differential backup to the specified logical unit reached the maximum. Please confirm the backup group.
DMED90B0DA	0x0390B0DA	The process failed due to an invalid parameter. Confirm the specified value.
DMED90B0DB	0x0390B0DB	The process cannot be performed because the logical unit is not used by this differential backup. Please confirm the logical unit.
DMED90B0DD	0x0390B0DD	The process cannot be performed because the status of the tape group is illegal. Please confirm the status of the tape group.
DMED90B0DE	0x0390B0DE	The process cannot be performed because the number of data sets in the specified tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.
DMED90B0DF	0x0390B0DF	The process cannot be performed because the number of tape cartridges in the tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.
DMED90B0E0	0x0390B0E0	The process cannot be performed because the specified tape group is already backed up by append write. Please specify the data set and then try again.
DMED90B0E1	0x0390B0E1	The process failed due to an invalid parameter. Confirm the specified value.
DMED90B0E2	0x0390B0E2	The process cannot be performed because the data set does not exist. Please confirm the data set.
DMED90B0E3	0x0390B0E3	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The process cannot be performed because the full backup tape group does not exist. Please confirm the tape group.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The process cannot be performed because the full backup tape group or data set does not exist. Please confirm the tape group or the data set.
DMED90B0E4	0x0390B0E4	The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.

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Message code	Error code	Message text/Recovery methods
DMED90B0E5	0x0390B0E5	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the status of the full backup tape group is illegal. Please confirm the status of differential source tape group. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be performed because the status of the full backup tape group or data set is illegal. Please confirm the status of the tape group or the data set.
DMED90B0E6	0x0390B0E6	The process cannot be performed because the restoration is in progress in the tape group. Please try again, after it is completed.
DMED90B0E7	0x0390B0E7	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. The process cannot be performed because the restoration of the full backup tape group is in progress. Please try again, after it is completed. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. The process cannot be performed because the restoration of the full backup tape group or data set is in progress. Please try again, after it is completed.
DMED90B0E8	0x0390B0E8	The process cannot be performed because the copy is in progress. Please try again, after it is completed.
DMED90B0E9	0x0390B0E9	The process cannot be performed because the restoration is in progress. Please try again, after it is completed.
DMED90B0EA	0x0390B0EA	The process cannot be performed because the copy is in progress. Please try again, after it is completed.
DMED90B0EB	0x0390B0EB	The process cannot be performed because the restoration is in progress. Please try again, after it is completed.
DMED90B0EC	0x0390B0EC	The process failed due to an invalid parameter. Confirm the specified value.
DMED90B0ED	0x0390B0ED	The process cannot be performed because the cache memory size is insufficient. Please try again, after other restoration is completed.
DMED90B0EE	0x0390B0EE	The process cannot be performed because the logical unit at restoring destination is not a part of ShadowImage pair. Please confirm the pair status of the logical unit.
DMED90B0EF	0x0390B0EF	The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.
DMED90B0F0	0x0390B0F0	The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.
DMED90B0F1	0x0390B0F1	The process cannot be performed because the restoration is in progress in the backup group. Please confirm the status of the tape group in the backup group.
DMED90B0F2	0x0390B0F2	The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.
DMED90B0F3	0x0390B0F3	The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.
DMED90B0F4	0x0390B0F4	The process cannot be performed because the copy is in progress in the backup group. Please confirm the status of the tape group in the backup group.
DMED90B0F5	0x0390B0F5	The process cannot be performed because the status of another tape group in the backup group is illegal. Please confirm the status of the tape group in the backup group.
DMED90B0F6	0x0390B0F6	The process cannot be performed because the access level is set to the logical unit. Please confirm the logical unit.
DMED90B0FB	0x0390B0FB	The process cannot be performed because the status of the tape group is illegal. Please confirm the status of the data set.
DMED90B0FC	0x0390B0FC	The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.
DMED90B0FD	0x0390B0FD	The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.
DMED90B0FE	0x0390B0FE	The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.

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Message code	Error code	Message text/Recovery methods
DMED90B101	0x0390B101	The process cannot be performed because the copy is in progress. Please try again, after it is completed.
DMED90B102	0x0390B102	The process cannot be performed because the restoration is in progress. Please try again, after it is completed.
DMED90B103	0x0390B103	The process cannot be performed because the memory reconfiguration is in progress. Please try again after the memory reconfiguration is completed.
DMED910072	0x03910072	The process cannot be performed because the specified tape group is impossible to import. Please confirm the tape group.
DMED91100C	0x0391100C	The process cannot be performed because differential bit map is insufficient. Please delete unnecessary pairs or increase the cache memory.
DMEDC00001	0x03C00001	The process cannot be performed because the specified group number is outside the effective range. Please confirm the group number.
DMEDC00002	0x03C00002	The process cannot be performed because the specified logical unit number is outside the effective range. Please confirm the logical unit number.
DMEDC00003	0x03C00003	The specified group is not used. Please confirm the group number.
DMEDC00004	0x03C00004	The specified logical unit is not pair. Please confirm the logical unit number.
DMEDC00005	0x03C00005	The specified logical unit is V-VOL. Please specify another logical unit and try again.
DMEDC00006	0x03C00006	The specified logical unit is not V-VOL. Please specify the logical unit number of V-VOL and try again.
DMEDC00007	0x03C00007	The process cannot be performed because the number of pairs reached the maximum. Please confirm the settings of pairs.
DMEDC00008	0x03C00008	The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.
DMEDC00009	0x03C00009	The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.
DMEDC0000A	0x03C0000A	The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.
DMEDC0000B	0x03C0000B	The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.
DMEDC0000C	0x03C0000C	The process cannot be performed because the same Group Name exists. Please confirm the Group Name and try again.
DMEDC0000D	0x03C0000D	The process cannot be performed because the same Group Name exists. Please confirm the Group Name and try again.
DMEDC0000E	0x03C0000E	The specified logical unit is Volume Migration pair. Please specify another logical unit and try again.

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Message code	Error code	Message text/Recovery methods
DMEG000000	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Now rebooting or switching the array by other user. Please wait a moment.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array is being rebooted or switched by another user. Please wait.
DMEG000001	–	Array is currently being refreshed by another user. Please wait and try again.
DMEG000003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Currently processing by other users request. Please wait a moment and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Currently processing an other users request. Please wait a moment and try again.
DMEG000004	–	The install path of Navigator cannot be found.
DMEG000005	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The array to monitor does not exist.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The array could not be found.
DMEG000006	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Error monitoring is in stop progress. Please wait a moment and restart error monitoring.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Error monitoring is currently stopped. Please restart.
DMEG000007	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The arrays information may have been updated. Please refresh.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array information may have been updated. Please refresh.
DMEG000008	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The configuration of array may have been updated. Please refresh.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array configuration may have been updated. Please refresh.
DMEG000009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The size of specified file is over the maximum. Please confirm the file.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The size of the specified file is over the maximum. Please confirm the file size.
DMEG000010	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Currently processing by other users request. Please wait a moment and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Currently processing an other users request. Please wait a moment and try again.
DMEG000011	–	The file or directory cannot be deleted.
DMEG000012	–	The firmware cannot be updated because the array is in progress.
DMEG000013	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The specified file cannot be accepted because it is not zip file. Please confirm the file.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The specified file is not ZIP file. Please confirm the file type.
DMEG000014	–	Failed to transfer the specified file.
DMEG000015	–	Currently testing error monitoring for another user. Please wait a moment and then try again.
DMEG000016	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The arrays information may have been updated. Please refresh information in Arrays screen, and retry.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array information may have been updated. Please refresh.

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Message code	Error code	Message text/Recovery methods
DMEG000017	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Cannot add array, because error monitoring is in progress. Please confirm error monitoring is stopped, and then add array again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The array could not be added because error monitoring is in progress. Please confirm that error monitoring has stopped and try again.
DMEG000018	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Cannot edit array, because error monitoring is in progress. Please confirm error monitoring is stopped, and then edit array again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The array could not be edited because error monitoring is in progress. Please confirm that error monitoring has stopped and try again.
DMEG000019	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Cannot remove arrays, because error monitoring is in progress. Please confirm error monitoring is stopped, and then remove arrays again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The array could not be removed because error monitoring is in progress. Please confirm that error monitoring has stopped and try again.
DMEG00001A	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The specified file cannot extract. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The specified file could not be extracted.
DMEG00001B	–	Context parameter 'supportedLocales' is not specified in web.xml.
DMEG00001C	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Currently processing by other users request. Please wait a moment and then try again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Currently processing another user's request. Please try again.
DMEG00001D	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Currently processing by other users request. Please wait a moment and then try again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Currently processing another user's request. Please try again.
DMEG00001E	–	An error was detected in the data received from the subsystem.
DMEG00001F	–	The file cannot be compressed.
DMEG000101	–	The IP address of syslog server XXX is not specified. Please specify the IP address.
DMEG000102	–	The IP address of the syslog server XXX is too long. Please specify the valid IP address.
DMEG000103	–	The multi-byte character is contained in the IP address of syslog server XXX. Please specify the IP address using the ASCII-character code.
DMEG000201	–	Please specify the user ID.
DMEG000203	–	The user ID is too long. Please specify the valid user ID.
DMEG000204	–	The password is too long. Please specify the valid password.
DMEG000205	–	You cannot login. Please specify the user ID and password.
DMEG000206	–	The units for testing are not selected. Please select the units.
DMEG000207	–	The old password is too long. Please specify the valid old password.
DMEG000208	–	The new password is too long. Please specify the valid new password.
DMEG000209	–	The new password does not match the confirmed password.
DMEG000210	–	The role is not assigned. Please assign the role.
DMEG000211	–	You have no permission. Please confirm your permission.
DMEG000212	–	The current login session is expired. If you are displaying the subsystem dialog window, please close the window and login again. Please select the subsystem in the Arrays screen again.

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Message code	Error code	Message text/Recovery methods
DMEG000220	–	Cannot display because JRE is not installed or it is disabled. Please install the JRE or enable it and try again.
DMEG000221	–	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the 64-bit version is not installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the JRE corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the 64-bit version is installed or JRE of the outside for support is installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the supported JRE after 1.6.0_10 corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
DMEG000222	–	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the 32-bit version is not installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the JRE corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the 32-bit version is installed or JRE of the outside for support is installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the supported JRE after 1.6.0_10 corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
DMEG000223	–	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		Cannot display because JRE corresponding to a browser in use is not installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the JRE corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the outside for support is installed or the Java Applet Runtime Settings or the Manage Add-ons of browser is invalid. Please install the supported JRE after 1.6.0_10 corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Manage Add-ons of browser.
DMEG000224	–	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		Cannot display because JRE corresponding to a browser in use is not installed or the Java Applet Runtime Settings or the Settings of browser is invalid. Please install the JRE corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Settings of browser.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		Cannot display because JRE corresponding to a browser in use is not installed or JRE of the outside for support is installed or the Java Applet Runtime Settings or the Settings of browser is invalid. Please install the supported JRE after 1.6.0_10 corresponding to a browser in use or confirm the Java Applet Runtime Settings or the Settings of browser.
DMEG0002F0	–	Cannot open the advanced settings window because there is not enough memory to open. Configure the settings of Java Plug-in installed the client computer to increase available memory.
DMEG000300	–	The Array ID before and behind change is the same. Please specify a right Array ID.
DMEG100001	–	Do you want to reboot the array?
DMEG100002	–	The array is not selected.
DMEG100003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Two or more arrays to reboot are selected.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Only one array can be selected to reboot. Please try again.
DMEG100004	–	Currently rebooting the array.
DMEG100005	–	Completed the rebooting of the array.
DMEG100006	–	Please enter user ID.

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Message code	Error code	Message text/Recovery methods
DMEG100007	–	The array is not selected.
DMEG100008	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		You have no permission. Please confirm your permission.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		You do not have sufficient privileges.
DMEG100009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Maintenance personnel is connecting now.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Maintenance personnel are now connected.
DMEG100010	–	Failed to log in. XXX is now logged in by someone.
DMEG100011	–	Do you want to connect forcibly?
DMEG100012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		You cannot login. Please confirm the user ID and password.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Could not login. Invalid user ID and password.
DMEG100013	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Current login session is expired as the time out. Please display the Arrays screen, and select the array.(*1)
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Current session has timed out. Please login again.(*1)
		*1 : When executing the dual login by the built-in account (logging in the same array subsystem from other management PC by the built-in account while logging in the array subsystem by the built-in account), the first login session is discarded and this message is displayed. Be careful that the dual login by the built-in account cannot be executed. The same is true for the case when the regular failure monitoring by Hitachi Storage Navigator Modular 2 is performed by the built-in account. In this case, create a general account that gives Role of Storage Administrator (View Only) for the failure monitoring, and perform the failure monitoring.
DMEG100014	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Invalid data. Please enter again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Invalid data. Please re-enter.
DMEG100015	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Invalid character is specified. Please try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Invalid character specified. Please re-enter.
DMEG100016	–	Please wait for a moment. Time required
DMEG100017	–	Host will be unable to access the array while restarting. Host applications that use the array will terminate abnormally. Please stop the host accesses before you restart the array. When using TrueCopy, restarting the remote array will cause both TrueCopy paths to fail. TrueCopy pair status will be changed to “PSUE” when pair status is “PAIR” or “COPY”. Please change TrueCopy pair status to “PSUS” before restarting.
DMEG100018	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IP Address or Host Name is invalid.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IP Address or Array Name is invalid.
DMEG100019	–	The array name will be registered as XXX, but this name is already registered. Specify another name.
DMEG100020	–	The array(s) has/have been added to the navigator. After closing this wizard, you can refer and configure the array(s) from Arrays screen.
DMEG100021	–	Currently searching array(s) from XXX to YYY.

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Message code	Error code	Message text/Recovery methods
DMEG100022	–	Failed to add the array XXX.
DMEG100023	–	Only the objects that complete the operation are displayed as follows.
DMEG100024	–	Click Finish to close the wizard.
DMEG100025	–	A failure has occurred. Please read the error information below. Click Finish to close the wizard.
DMEG100026	–	Specified IP Address is invalid.
DMEG100027	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot add array, because error monitoring is in progress. Please confirm error monitoring is stopped, and then add array again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array could not be added because error monitoring is in progress. Please confirm that error monitoring has stopped and try again.
DMEG100028	–	Please select the array to test.
DMEG100029	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified user ID is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified user ID is invalid. Please try again.
DMEG10002A	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot add array, because the specified array is not supported.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot add array because the specified array is not supported.
DMEG10002B	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Array Name is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Array Name is invalid. Please re-enter.
DMEG10002C	–	Neither IPv4 nor IPv6 is specified. Please specify IPv4 or IPv6 or both.
DMEG100030	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified interval time is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified interval time is invalid. Please specify a correct value.
DMEG100031	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified password is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified password is invalid. Please re-enter.
DMEG100032	–	Completed the editing of error monitoring options.
DMEG100033	–	Failed to change interval time.
DMEG100034	–	(Not execute to set account)
DMEG100035	–	Failed to set account. (Executed to change interval time)
DMEG100036	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot set error monitoring options, because error monitoring is in progress. Please confirm error monitoring is stopped, and then set options.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot set error monitoring options because error monitoring is in progress. Please confirm error monitoring has stopped and try again.
DMEG100037	–	The Built-in account cannot be used for error monitoring. Please specify another user ID.
DMEG100040	–	Specified Array Name is invalid.
DMEG100041	–	Specified Group Name is invalid.
DMEG100044	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Show and configure of the selected array has not supported.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Show and configure of the selected array is not supported.

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Message code	Error code	Message text/Recovery methods
DMEG100045	–	The function cannot be performed because the array is not supported.
DMEG100046	–	Specified IP Address or Array Name is invalid.
DMEG100047	–	You cannot log in to array because Type, Serial Number and H/W Revision are different between array and navigator. Remove this array in the array list window and click Add Array to register it again.
DMEG200001	–	The process cannot be performed in the single-controller system.
DMEG200002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The tray cannot be installed because the number of trays reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The tray cannot be installed because the number of trays has reached the maximum.
DMEG200003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process cannot be performed because the failure occurred in the controller or ENC. Please recover the status and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process cannot be performed because a failure has occurred in the controller or ENC. Please fix the error and try again.
DMEG200004	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process cannot be performed because the subsystem is under internal process. Please retry after 5 minutes.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process cannot be performed because the subsystem is performing an internal operation. Please try again after 5 minutes.
DMEG200005	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process cannot be performed because the tray is being installed. Please retry after the installation of tray completes.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process cannot be performed because the tray is being installed. Please try again after the installation of tray is completed.
DMEG200006	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process cannot be performed because the firmware program is being replaced. Please retry after the replacement completes.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process cannot be performed because the firmware program is being replaced. Please try again after the firmware is replaced.
DMEG200007	–	The process cannot be performed because the tray is not supported in the system.
DMEG200008	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Failed to install tray. Please detach connected ENC cables and power cables and retry installing tray.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to install tray. Please detach connected ENC cables and power cables and try again.
DMEG200009	–	Failed to install tray. Confirm the array status.
DMEG210001	–	The specified number of batteries is invalid.
DMEG310001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A new RAID group cannot be created because the number of RAID groups reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A new RAID group cannot be created because the number of RAID groups have reached the maximum.
DMEG310002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot create RAID group, because available drives do not exist. Please confirm the drives, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot create RAID group because drives are not available. Please confirm the drives and try again.
DMEG310003	–	Specified RAID Group is invalid. Please specify correct value.

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Message code	Error code	Message text/Recovery methods
DMEG310004	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified Parity Groups is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified Parity Group is invalid. Please specify correct value.
DMEG310005	–	Completed the creation of the RAID group.
DMEG310006	–	Completed the deletion of the RAID group(s).
DMEG310007	–	Failed to delete RAID group XXX
DMEG310009	–	Please select the RAID group.
DMEG310016	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Number of selected drives is invalid. Please select drives of correct number.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Number of selected drives is invalid. Please select the correct number of drives.
DMEG310017	–	Confirm the creation of the RAID group. When drive failure occurs, it is impossible to recover user data from RAID group whose RAID level is 0.
DMEG310018	–	Only the objects that complete the operation are displayed as follows.
DMEG310019	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A new logical unit cannot be created because the number of logical units reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A new logical unit cannot be created because the number of logical units have reached the maximum.
DMEG31001A	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified drive types does not match. Please specify the same drive type.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified drive types do not match. Please specify the same drive type.
DMEG31001B	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A new logical unit cannot be created because the number of logical units reached the maximum in RAID Group.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A new logical unit cannot be created because the number of logical units have reached the maximum in RAID Group.
DMEG31001C	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot create logical unit, because free spaces do not exist in selected RAID group. Please select the RAID group with free spaces and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot create logical unit because free space does not exist in the selected RAID group. Please select the RAID group with free space and try again.
DMEG31001D	–	There are no available drives to create the RAID group. Please confirm the RAID group configuration.
DMEG310020	–	Specified LUN is invalid. Please specify correct value.
DMEG310021	–	Specified space is invalid. Please specify correct value.
DMEG310022	–	Specified capacity is invalid. Please specify correct value.
DMEG310023	–	Completed the creation of the logical unit.
DMEG310024	–	Completed the edit instruction of the cache partition. In order to enable the setting, it is necessary to reboot the array. If you want to enable the setting and reboot the array now, click Reboot Array. Or if you want to reboot later, click Close.
DMEG310025	–	Please select the logical units.
DMEG310026	–	Start the format of logical unit(s).
DMEG310027	–	Please select the logical units.
DMEG310028	–	Failed to delete logical unit XXX
DMEG310029	–	Only the objects that complete the operation are displayed as follows.

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Message code	Error code	Message text/Recovery methods
DMEG31002A	–	Failed to refresh. Please display the Arrays screen, and confirm the array status.
DMEG31002B	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The logical units are deleted successfully. Failed to refresh. Please display the Arrays screen, and confirm the array status.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Logical units deleted successfully. Failed to refresh. Please display the Arrays screen and confirm the array status.
DMEG31002C	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The RAID groups are deleted successfully. Failed to refresh. Please display the Arrays screen, and confirm the array status.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		RAID groups deleted successfully. Failed to refresh. Please display the Arrays screen and confirm the array status.
DMEG31002D	–	Completed the edit instruction of the pair cache partition.
DMEG310030	–	Completed the deletion of the logical unit(s).
DMEG310031	–	Confirm to edit the cache partition. If you edit the cache partition, the status of pair cache partition may be changed into Auto. So please confirm the status of pair cache partition after reboot.
DMEG310032	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The specified logical unit number is already defined. Specify a new logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified logical unit number is already defined. Specify a different logical unit number.
DMEG310034	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified used LUN to create logical unit is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified used LUN to create logical unit is invalid. Please try again.
DMEG310035	–	Specified used free space to create logical unit is invalid. If you select ALL in capacity, please specify an only free space.
DMEG310036	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified space is invalid. If you select RG ALL in capacity, please select Set Automatically.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified free space is invalid. Select Set Automatically if you select RG ALL under Capacity.
DMEG310040	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot change the logical unit capacity, because RAID group of selected logical unit is RAID0. Please select another logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot change the logical unit capacity because the RAID group of the selected logical unit is RAID0. Please select another logical unit.
DMEG310041	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot change the logical unit capacity, because selected logical unit is not unified and there are no available logical units to add the logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot change the logical unit capacity because the selected logical unit is not unified and there are no available logical units to add.
DMEG310042	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot grow the logical unit, because no free spaces exists in the RAID group.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot expand the logical unit because there is no available free space in the RAID group.

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Message code	Error code	Message text/Recovery methods
DMEG310043	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot grow the logical unit, because the number of logical units reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot expand the logical unit because the number of logical units have reached the maximum.
DMEG310044	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Logical units to add are not specified. Please select the logical units to add.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		No logical units have been specified to add.
DMEG310045	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot change capacity of the logical unit, because selected logical unit is V-VOL.Please select another logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot change capacity of the logical unit because selected logical unit is a V-VOL (virtual volume).
DMEG310046	–	Logical unit capacity changed successfully. Failed to refresh. Confirm the array status from the Arrays window.
DMEG311001	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot expand the RAID level 0 RAID group. Please select the RAID group except RAID level0, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot expand RAID groups with a RAID0.
DMEG311002	–	Cannot expand the RAID group because assignable drives do not exist.
DMEG311003	–	Number of selected drives is invalid. Please select drives of correct number.
DMEG311004	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot expand the RAID group, because the number of data drives assigned the RAID Group reached maximum.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot expand the RAID group because the drive configuration of the RAID level has reached the maximum.
DMEG311005	–	The process cannot be performed because the number of parity groups is not 1. Please confirm the RAID group and try again.
DMEG320001	–	The deletion cannot be executed because host group 000 is specified. Please execute initialization for host group 000.
DMEG320002	–	Host group is not selected. Please specify host group and try again.
DMEG320003	–	There is no port to which host group can be added.
DMEG320004	–	Specified host group number is invalid. Please specify correct value.
DMEG320005	–	Specified host group name is invalid. Please specify correct value.
DMEG320006	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A port for addition host group is not selected. Please select port.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A port for adding the host group is not selected. Please select the port.
DMEG320007	–	The function cannot be executed because LUN Manager is disabled. Please install and enable LUN Manager and try again.
DMEG320008	–	Two or more host groups are selected. Please select only one host group and try again.
DMEG320009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified host group is not existed. Please specify other host group.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified host group does not exist. Please specify another host group.
DMEG32000A	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified wwn is unusable, please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified WWN is unusable. Please specify correct value.

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Message code	Error code	Message text/Recovery methods
DMEG32000B	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The function cannot executed because host group security is disable. Please make host group security enable and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The function cannot be executed because host group security is disabled. Please enable host group security and try again.
DMEG32000C	–	Port is not selected. Please specify port and try again.
DMEG32000D	–	WWN is not selected. Please specify WWN and try again.
DMEG32000E	–	The function cannot be executed because the WWN is already assigned to host groups and cannot be deleted.
DMEG32000F	–	Two or more WWNs are selected. Please select only one WWN and try again.
DMEG320010	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified nickname is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified nickname is invalid. Please try again.
DMEG320011	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified WWN does not exist. Please specify other WWN.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified WWN does not exist. Please specify another WWN.
DMEG320012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified WWN already exists. Please specify other WWN.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified WWN already exists. Please specify another WWN.
DMEG320013	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The initialization cannot be executed because host group other than host group 000 is specified. Please execute deletion for host group other than host group 000.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The initialization cannot be executed because host group other than host group 000 is specified. Please delete host group other than host group 000.
DMEG320014	–	A host group already exists for the selected ports. Please make Available Ports to the default settings or enable " Forced set to all selected ports " and try again.
DMEG330001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The deletion cannot be executed because iSCSI target 000 is specified. Please execute initialization for iSCSI target 000.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The deletion cannot be executed because iSCSI target 000 is specified. Please initialize iSCSI target 000.
DMEG330002	–	iSCSI target is not selected. Please specify iSCSI target and try again.
DMEG330003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		There is no port where iSCSI target creation available.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		There is no port available to create the iSCSI target.
DMEG330004	–	Specified iSCSI target number is invalid. Please specify correct value.
DMEG330005	–	Specified iSCSI name is invalid. Please specify correct value.
DMEG330006	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A port for creation iSCSI target is not selected. Please select port.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A port for creating the iSCSI target is not selected. Please select a port.

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DMEG330007	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The function cannot be executed because LUN Manager is disable. Please install and enable LUN Manager, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The function cannot be executed because LUN Manager is disabled. Please install and enable LUN Manager and try again.
DMEG330008	–	Two or more iSCSI targets are selected. Please select only one iSCSI target and try again.
DMEG330009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified iSCSI target does not exist. Please specify other iSCSI target.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified iSCSI target does not exist. Please specify another iSCSI target.
DMEG33000A	–	Specified host iSCSI name is invalid. Please specify correct value.
DMEG33000B	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The function cannot executed because iSCSI target security is disable. Please make iSCSI target security enable and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The function cannot be executed because iSCSI target security is disabled. Please make enable iSCSI target security and try again.
DMEG33000C	–	Port is not selected. Please specify port and try again.
DMEG33000D	–	Host is not selected. Please specify host and try again.
DMEG33000E	–	The function cannot be executed because assigned host is specified.
DMEG33000F	–	Two or more hosts are selected. Please select only one host and try again.
DMEG330010	–	Specified nickname is invalid. Please specify correct value.
DMEG330011	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified host does not exist, please specify other host.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified host does not exist. Please specify other host.
DMEG330012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified iSCSI name has already existed, please specify other iSCSI name.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified iSCSI name already exists. Please specify another iSCSI name.
DMEG330013	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The initialization cannot be executed because iSCSI target other than iSCSI target 000 is specified. Please execute deletion for iSCSI target other than iSCSI target 000.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to initialize because iSCSI target other than iSCSI target 000 is specified. Please delete iSCSI target other than iSCSI target 000.
DMEG330014	–	Specified iSCSI target alias is invalid. Please specify correct value.
DMEG330015	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		iSCSI name for host should start from "eui." or "iqn.". Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		iSCSI name for host should start with "eui." or "iqn.". Please specify correct value.
DMEG330016	–	Specified user name is invalid. Please specify correct value.
DMEG330017	–	Specified secret is invalid. Please specify correct value.
DMEG330018	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified retype secret does not match secret. Please retype again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The retyped secret does not match secret. Please retype again.

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Message code	Error code	Message text/Recovery methods
DMEG330019	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Fail to change Nickname of the selected host. You cannot change Nickname of an iSCSI host until the host is associated to an iSCSI Target.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to change Nickname of the selected host. You cannot change Nickname of an iSCSI host until the host is associated to an iSCSI Target.
DMEG33001A	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Maximum number of hosts is assigned. Please remove hosts, which is not used.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Maximum number of hosts is already assigned. Please remove hosts that are not used.
DMEG330020	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified host does not exist, please specify other host.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified host does not exist. Please specify another host.
DMEG330021	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		iSCSI name should start from "eui." or "iqn.". Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		iSCSI name should start with "eui." or "iqn.". Please specify correct value.
DMEG330022	–	A iSCSI Target already exists for the selected ports. Please make Available Ports to the default settings or enable " Forced set to all selected ports " and try again.
DMEG330023	–	The process cannot be performed because the same iSCSI Name exists in a iSCSI target. Please confirm iSCSI Name and try again.
DMEG331001	–	User Name is invalid. Please specify correct value.
DMEG331002	–	Secret is invalid. Please specify correct value.
DMEG331003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Both secret and retyped secret do not match.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Secret and retyped secret do not match.
DMEG331004	–	Select at least one port to be assigned.
DMEG331005	–	The maximum number of CHAP user has already been set.
DMEG340100	–	A new DP pool cannot be created because the number of DP pools has reached the maximum.
DMEG340101	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot create DP pool because drives are not available. Please confirm the drives and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		You cannot create a DP pool because drives are not available. Please confirm the drives and try again.
DMEG340102	–	Specified DP Pool is invalid. Please specify correct value.
DMEG340103	–	Number of selected drives is invalid. Please select the correct number of drives.
DMEG340104	–	Specified drive types do not match. Please specify the same drive type.
DMEG340105	–	Specified Early Alert is invalid. Please specify correct value.
DMEG340106	–	Specified Depletion Alert is invalid. Please specify correct value.
DMEG340107	–	Specified DP pool number is already defined. Specify a different DP pool number.
DMEG340108	–	Specified Number of drives is invalid. Please specify correct value.
DMEG34010B	–	The early alert of DP pool consumed capacity alert is equal to or more than the depletion alert. Please confirm the values and try again.
DMEG34010C	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Warning is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Warning Threshold is invalid. Please specify correct value.

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Message code	Error code	Message text/Recovery methods
DMEG34010D	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Limit is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Limit Threshold is invalid. Please specify correct value.
DMEG34010E	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The warning of over provisioning threshold is equal to or more than the limit. Please confirm the values and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The Warning Threshold value for the over provisioning threshold is equal to or more than the Limit Threshold value. Please confirm the values and try again.
DMEG34010F	–	The number of defined RAID groups has reached the maximum. Please delete unnecessary RAID groups and try again.
DMEG340122	–	DP pool deleted successfully. Failed to refresh. Please display the Arrays screen and confirm the array status.
DMEG340130	–	Specified Early Alert is invalid. Please specify correct value.
DMEG340131	–	Specified Depletion Alert is invalid. Please specify correct value.
DMEG340133	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The forewarning of over provisioning ratio is equal to or more than the overwarning. Please confirm the values and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The Warning Threshold value for the over provisioning threshold is equal to or more than the Limit Threshold value. Please confirm the values and try again.
DMEG340134	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The early alert of DP pool consumed capacity alert is equal to or more than the depletion alert. Please confirm the values and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The value of the Early Alert for the DP pool consumed capacity alert is equal to or more than the Depletion Alert value. Please confirm the values and try again.
DMEG340135	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Warning is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Warning Threshold is invalid. Please specify correct value.
DMEG340136	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Limit is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Limit Threshold is invalid. Please specify correct value.
DMEG340140	–	Cannot add DP pool capacity because drives are not available. Please confirm the drives and try again.
DMEG340141	–	Specified Number of drives is invalid. Please specify correct value.
DMEG340142	–	Number of selected drives is invalid. Please select the correct number of drives.

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DMEG400000	–	Specified interval is invalid. Please specify correct value.
DMEG400001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The specified file is not firmware. Confirm the specified file.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The specified file is invalid. Confirm the file format.
DMEG400002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Uploaded firmware file cannot extract. Confirm the file and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Uploaded firmware file cannot be extracted. Confirm the file and try again.
DMEG410001	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot set over the maximum spare drives. Select them again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot set over the maximum number of spare drives. Please try again.
DMEG410004	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Failed to the removing of the spare drive(s).
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to remove the spare drive(s).
DMEG410006	–	Drives that set as spare drives are not selected. Select drives to set.
DMEG410007	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		A drive to remove is not selected.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Drive to be removed is not selected. Please try again.
DMEG410008	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot add spare drives, because available drives do not exist. Allocate available drives, and try again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot add spare drives because available drives do not exist. Allocate available drives and try again.
DMEG410009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A new spare drive cannot be set because the number of spare drives that have already been set reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A new spare drive cannot be added. The maximum number of spare drives have already been configured.
DMEG41000A	–	Failed to add spare drives.
DMEG420000	–	Select the license to change the status.
DMEG420001	–	Select the license to de-install.
DMEG420003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The error occurred in the selection of the check boxes of the licenses.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An error occurred in the check box selection of the licenses.
DMEG420004	–	Failed to change status of license.
DMEG420009	–	Failed to de-install the license.
DMEG42000D	–	Hitachi Storage Navigator Modular 2 is less than Ver.7.70.
		Failed to get license names. Please specify the correct keyfile.
		Hitachi Storage Navigator Modular 2 is Ver.7.70 or more.
		Keyfile is invalid or installation requirements aren't satisfied. Confirm keyfile or array configuration and try again.
DMEG420010	–	Failed to install the license.
DMEG420012	–	The keyfile is not specified.
DMEG420013	–	The keycode is empty.
DMEG420014	–	Specified keycode is invalid. Please specify correct value.
DMEG420016	–	No unlockable option is exists in the keyfile. Please specify the valid file and try again.

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DMEG420018	–	The keyfile has unjust contents. Please specify the valid file and try again.
DMEG430003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Failed the removing of command device(s).
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to remove command device(s).
DMEG430004	–	Select the command device(s) to change.
DMEG430005	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The number of command devices is already maximum. No new command device can be set.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		A new command device cannot be added. The maximum number of command devices have already been configured.
DMEG430006	–	Select the logical unit(s) to add as command device.
DMEG430007	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Can not define command devices over the maximum count. Select them again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		You have selected more command devices than the maximum number allowed. Please re-confirm and select again.
DMEG430008	–	Select the command device(s) to remove.
DMEG430009	–	No logical units are selected for command device(s). Select them again.
DMEG43000A	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		No logical units which are able to be set to command devices exist. Prepare some logical units.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		No logical units that are available to be set to command devices exist. Create logical units to be used as command devices.
DMEG43000C	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The error occurred in the selection of the check boxes of the RAID manager protection.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An error occurred in the selection of the check boxes of the RAID manager protection.
DMEG43000D	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The error occurred when push the Add or Remove.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An error occurred during the Add or Remove.
DMEG43000F	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The setting of command device may have been updated. Please refresh.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The setting of command devices may have been updated. Please refresh.
DMEG430010	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Failed the addition of command device.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to add command device.
DMEG430011	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Failed the change of RAID manager protection status.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to change RAID manager protection status.

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DMEG440000	–	Specified IP Address is invalid. Please specify correct value.
DMEG440001	–	Specified Subnet Mask is invalid. Please specify correct value.
DMEG440002	–	Specified Default Gateway is invalid. Please specify correct value.
DMEG440003	–	Specified TCP Port Number is invalid. Please specify correct value.
DMEG440004	–	Specified Keep Alive Timer is invalid. Please specify correct value.
DMEG440005	–	When setting iSCSI port parameters except for Keep Alive Timer, the array stops access to all the ports on the same controller with the iSCSI port. Please make sure to stop the host accesses to the iSCSI ports on the same controller before performing this operation. Do you want to continue processing?
DMEG440006	–	The editing iSCSI port is completed successfully. After the status of the port will return to normal, restart the host accesses to the ports on the same controller.
DMEG440010	–	The editing iSNS Settings is completed successfully.
DMEG440011	–	Specified IP Address is invalid. Please specify correct value.
DMEG440012	–	Specified TCP Port Number is invalid. Please specify correct value.
DMEG441000	–	Specified Address of Port is invalid. Please specify correct value.
DMEG442000	–	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		Specified Send To Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		Specified Destination IP Address is invalid. Please specify correct value.
DMEG442001	–	Port is not selected. Please specify one or more ports.
DMEG450000	–	Completed sending test mails to all the addresses registered as Send To Address. Confirm that the test mail was sent to the specified address(es).
DMEG450010	–	Specified Domain Name is invalid. Please specify correct value.
DMEG450011	–	Specified Mail Server Address is invalid. Please specify correct value.
DMEG450012	–	Specified From Address is invalid. Please specify correct value.
DMEG450013	–	Specified Send To Address (1) is invalid. Please specify correct value.
DMEG450014	–	Specified Send To Address (2) is invalid. Please specify correct value.
DMEG450015	–	Specified Send To Address (3) is invalid. Please specify correct value.
DMEG450016	–	Specified Send To Address (4) is invalid. Please specify correct value.
DMEG450017	–	Specified Reply To Address is invalid. Please specify correct value.
DMEG450018	–	Specified Mail Additional Information is invalid. Please specify correct value.
DMEG450019	–	Completed editing E-mail settings.
DMEG450020	–	Confirm to initialize the parameters of E-mail settings.
DMEG450021	–	Completed initializing the parameters of E-mail settings.
DMEG450022	–	The Send To Address is duplicated. Please confirm the Send To Address.
DMEG460010	–	Specified Date is invalid. Please specify correct value.
DMEG460011	–	Specified Time is invalid. Please specify correct value.
DMEG460020	–	Specified IP address of NTP Server is invalid. Please specify correct value.
DMEG471000	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Array ID is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Array ID is invalid. Please try again.
DMEG471001	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IP Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IP Address is invalid. Please try again.
DMEG471002	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified TCP Port Number is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified TCP Port Number is invalid. Please try again.
DMEG472001	–	Operation has failed. Confirm the array status.

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DMEG473000	–	Switch array cannot be executed. Please check the migration status.
DMEG473001	–	Specified IP Address is invalid. Please specify correct value.
DMEG473002	–	Specified Subnet Mask is invalid. Please specify correct value.
DMEG473003	–	Specified Default Gateway is invalid. Please specify correct value.
DMEG473004	–	Specified IPv4 Address is invalid. Please try again.
DMEG473005	–	Specified IPv4 Subnet Mask is invalid. Please try again.
DMEG473006	–	Specified IPv4 Default Gateway is invalid. Please try again.
DMEG473007	–	Specified IPv6 Address is invalid. Please try again.
DMEG473008	–	Specified Subnet Prefix Length is invalid. Please try again.
DMEG473009	–	Specified IPv6 Default Gateway is invalid. Please try again.
DMEG474000	–	Shred Data cannot be executed. Please check the migration status.
DMEG480000	–	The function cannot be executed because Password Protection is disabled. Please install and enable Password Protection, and try again.
DMEG480001	–	Specified user ID is invalid. Please specify correct value.
DMEG480002	–	Specified password is invalid. Please specify correct value.
DMEG480003	–	Specified retype password does not match password. Please retype again.
DMEG480004	–	Specified old user ID is invalid. Please specify correct value.
DMEG480005	–	Specified new user ID is invalid. Please specify correct value.
DMEG480006	–	Specified old password is invalid. Please specify correct value.
DMEG480007	–	Specified new password is invalid. Please specify correct value.
DMEG480008	–	Specified retype new password does not match new password. Please retype again.
DMEG480009	–	The function is not available, because there is no user id.
DMEG490000	–	Specified Environment Settings is invalid. Please specify correct value.
DMEG490001	–	Please specify Environment Settings file.
DMEG490002	–	Specified Array Name is invalid. Please specify correct value.
DMEG490003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Please specify Array Name file. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Please specify an Array Name file.
DMEG491000	–	Please specify the configuration file path.
DMEG491001	–	The option was not selected. Please select at least one option.
DMEG491002	–	The process cannot be performed because the DP pool exists. Please delete the DP pool and try again.
DMEG500000	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Setup Array Wizard cannot start as E-mail Alert is enabled. Please disable E-mail Alert function on E-mail Alert window and start this wizard again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Setup Array Wizard cannot start because E-mail Alert is enabled. Please disable E-mail Alert function on E-mail Alert window and start this wizard again.
DMEG500001	–	Specified value is invalid.
DMEG500002	–	The Send To Address is duplicated. Please confirm the Send To Address.
DMEG500003	–	Cannot set over the maximum spare drives. Select them again.
DMEG500004	–	Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG500005	–	Failed to enable E-mail Alert, though setting of the E-mail Alert was finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG500006	–	Specified Reply To Address is invalid. Please specify correct value.
DMEG500007	–	Specified Port Address is invalid. Please specify correct value.

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DMEG500008	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Address is invalid. Please try again.
DMEG500009	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Subnet Mask is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Subnet Mask is invalid. Please try again.
DMEG500010	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Default Gateway is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Default Gateway is invalid. Please try again.
DMEG500011	–	Cannot set over the maximum number of spare drives. Please try again.
DMEG500012	–	Specified Date is invalid. Please specify correct value.
DMEG500013	–	Specified Time is invalid. Please specify correct value.
DMEG500014	–	The E-mail Alert setting could not be completed successfully. Please confirm the current configurations from the E-mail Alert window in Settings tree.
DMEG500015	–	Failed to enable E-mail Alert. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG500016	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Subnet Prefix Length is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Subnet Prefix Length is invalid. Please try again.
DMEG500017	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv6 Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv6 Address is invalid. Please try again.
DMEG500018	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv6 Default Gateway is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv6 Default Gateway is invalid. Please try again.
DMEG510000	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Domain Name is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Domain Name is invalid. Please re-enter.
DMEG510001	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Mail Server Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Mail Server Address is invalid. Please re-enter.
DMEG510002	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified From Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified From Address is invalid. Please re-enter.
DMEG510003	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Send To Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Send To Address is invalid. Please re-enter.
DMEG510004	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Input at least one Send To Address.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Enter at least one Send To Address.

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Message code	Error code	Message text/Recovery methods
DMEG510005	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Reply To Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Reply To Address is invalid. Please re-enter.
DMEG510006	–	IP address of controller 0 is invalid.
DMEG510007	–	Subnet mask of controller 0 is invalid.
DMEG510008	–	Default gateway of controller 0 is invalid.
DMEG510009	–	IP address of controller 1 is invalid.
DMEG510010	–	Subnet mask of controller 1 is invalid.
DMEG510011	–	Default gateway of controller 1 is invalid.
DMEG510012	–	IP address of port 0A is invalid.
DMEG510013	–	IP address of port 0B is invalid.
DMEG510014	–	IP address of port 1A is invalid.
DMEG510015	–	IP address of port 1B is invalid.
DMEG510016	–	Subnet mask of port 0A is invalid.
DMEG510017	–	Subnet mask of port 0B is invalid.
DMEG510018	–	Subnet mask of port 1A is invalid.
DMEG510019	–	Subnet mask of port 1B is invalid.
DMEG510020	–	Default gateway of port 0A is invalid.
DMEG510021	–	Default gateway of port 0B is invalid.
DMEG510022	–	Default gateway of port 1A is invalid.
DMEG510023	–	Default gateway of port 1B is invalid.
DMEG510024	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Initial Setup Wizard cannot start as E-mail Alert is enabled. Please disable E-mail Alert function on E-mail Alert window and start this wizard again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Initial Setup Wizard cannot start because E-mail Alert is enabled. Please disable E-mail Alert function on E-mail Alert window and start this wizard again.
DMEG510025	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations from the E-mail Alert window in Settings tree.
DMEG510026	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Failed to enable E-mail Alert, though setting of the E-mail Alert was finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Failed to enable E-mail Alert. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510027	–	The Send To Address is duplicated. Please confirm the Send To Address.
DMEG510028	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.

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Message code	Error code	Message text/Recovery methods
DMEG510029	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510030	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510031	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510032	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510033	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Setting of the E-mail Alert could not be finished successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The E-mail Alert setting could not be completed successfully. Please confirm the current configurations on E-mail Alert window in Settings tree.
DMEG510034	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Date is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Date is invalid. Please re-enter.
DMEG510035	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Time is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Time is invalid. Please re-enter.
DMEG530000	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The wizard cannot be executed. Please confirm the configuration of array.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cannot execute the wizard. Please confirm the configuration of array.
DMEG530001	–	The Simple DR cannot be executed, because iSCSI port is unequipped.
DMEG530002	–	The Simple DR cannot be executed, because the remote path is not iSCSI interface.
DMEG530005	–	Specified Remote array ID is invalid. Please specify correct value.
DMEG530006	–	Specified Remote IP address 0 is invalid. Please specify correct value.
DMEG530007	–	Specified Remote IP address 1 is invalid. Please specify correct value.
DMEG530008	–	No logical unit to be selected.
DMEG530009	–	Please select the logical unit.

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Message code	Error code	Message text/Recovery methods
DMEG53000A	–	The configuration of array has been modified. There are files unselected.
DMEG53000F	–	The initial setup of the Simple DR is completed successfully. Failed to refresh. Please display the Arrays screen, and confirm the array status.
DMEG530011	–	The selected number of logical units exceeded the maximum value.
DMEG530012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.00. The Simple DR cannot be executed, because the number of the pairs reached the maximum. Hitachi Storage Navigator Modular 2 is Ver.5.00 or more. The wizard cannot be executed because the number of pairs has reached the maximum.
DMEG530013	–	The wizard cannot be executed, because the remote path is not set. Please set the remote path.
DMEG530015	–	The initial setup of the TrueCopy Extended Distance is completed successfully. Failed to refresh. Please display the Arrays screen, and confirm the array status.
DMEG540000	–	The Create & Map Volume Wizard cannot be executed. Please confirm the configuration of array.
DMEG540001	–	The Create & Map Volume Wizard cannot be executed, because iSCSI port is unequipped.
DMEG540002	–	The Create & Map Volume Wizard cannot be executed, because the mapping mode is disabled.
DMEG540003	–	The Create & Map Volume Wizard cannot be executed, because there is no RAID groups.
DMEG541000	–	Specified capacity is invalid. Please specify correct value.
DMEG541001	–	Specified number of logical units is invalid. Please specify correct value.
DMEG541002	–	Please select the logical unit.
DMEG541003	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. There are not enough free spaces in RAID group. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. There is not enough free space in RAID group.
DMEG541004	–	There are not enough Logical Unit Numbers.
DMEG542000	–	Specified iSCSI target No. is invalid. Please specify correct value.
DMEG542001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The specified iSCSI target No. is already defined. Please confirm the number, and specify an unused number. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The specified iSCSI target No. is already defined. Please specify an unused number.
DMEG542002	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30. Specified alias is invalid. Please specify correct value. Hitachi Storage Navigator Modular 2 is Ver.9.30 or more. Specified alias is invalid. Please re-enter.
DMEG542003	–	The specified alias has already been defined. Specify undefined alias.
DMEG550000	–	The Create & Map Volume Wizard cannot be executed. Please confirm the array configuration.
DMEG550001	–	The Create & Map Volume Wizard cannot be executed because fibre channel port or iSCSI port is unequipped.
DMEG550002	–	The Create & Map Volume Wizard cannot be executed because the mapping mode is disabled.
DMEG552000	–	Logical unit not specified.
DMEG552001	–	Specified capacity is invalid. Please specify a correct value.
DMEG552002	–	Specified number of logical units is invalid. Please specify a correct value.
DMEG552003	–	There is not enough free space in RAID group.
DMEG553000	–	Specified host group No. is invalid. Please re-enter.
DMEG553001	–	The specified host group No. is already defined. Please confirm the number and specify an unused number.
DMEG553002	–	Specified host group name is invalid. Please re-enter.
DMEG553003	–	The specified host group name has already been defined. Specify an undefined host group name.
DMEG553004	–	There are not enough H-LUNs.

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Message code	Error code	Message text/Recovery methods
DMEG600001	–	A new account cannot be created because the number of accounts has reached the maximum.
DMEG600002	–	Specified user ID is invalid. Please re-enter.
DMEG600003	–	Specified password is invalid. Please re-enter.
DMEG600004	–	Specified passwords do not match. Please re-enter.
DMEG600005	–	The role is not assigned. Please verify with your system adminstrator your role assignments.
DMEG600008	–	The user authentication is changed from RADIUS to Internal. It is necessary to change the password.
DMEG600013	–	The selected account cannot be changed. Make sure it is not the built-in account or that the user is not currently logged in.
DMEG600022	–	The selected account cannot be deleted. Make sure it is not the built-in account or that the user is not currently logged in.
DMEG600032	–	The selected account cannot be deleted. Make sure it is not the built-in account or that the user is not currently logged in.
DMEG600051	–	Specified old password is invalid. Please re-enter.
DMEG600052	–	Specified new password is invalid. Please re-enter.
DMEG600053	–	Specified passwords do not match. Please re-enter.
DMEG600060	–	The function cannot be executed because Account Authentication is disabled. Please install and enable Account Authentication and try again.
DMEG600071	–	Specified IP Address is invalid. Please specify correct value.
DMEG600072	–	Specified Port Number is invalid. Please specify correct value.
DMEG600073	–	Specified IP Address and Port Number are invalid. Please specify correct value.
DMEG600074	–	Specified Shared Secret is invalid. Please specify correct value.
DMEG600075	–	Specified retype shared secret does not match shared secret. Please retype again.
DMEG600090	–	The Advanced Security Mode has already been enabled. Check the specified of Advanced Security Mode.
DMEG600091	–	The Advanced Security Mode has already been disabled. Check the specified of Advanced Security Mode.
DMEG620000	–	The function cannot be executed because Audit Logging is disabled. Please install and enable Audit Logging and try again.
DMEG620001	–	Failed to read the Internal Log.
DMEG620002	–	Specified Server is invalid. Please re-enter.
DMEG630000	–	No controller is specified. Please specify a controller.
DMEG630001	–	The specified non-secure port number of controller 0 is invalid. Please specify correct value.
DMEG630002	–	The specified secure port number of controller 0 is invalid. Please specify correct value.
DMEG630003	–	The specified non-secure port number of controller 1 is invalid. Please specify correct value.
DMEG630004	–	The specified secure port number of controller 1 is invalid. Please specify correct value.
DMEG630005	–	The non-secure port and secure port are same port number. Please specify different number.
DMEG630006	–	Please specify same number for non-secure port number of controller 0 and controller 1.
DMEG630007	–	Please specify same number for secure port number of controller 0 and controller 1.
DMEG63000F	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Address is invalid. Please try again.
DMEG630010	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Subnet Mask is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Subnet Mask is invalid. Please try again.
DMEG630011	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv4 Default Gateway is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv4 Default Gateway is invalid. Please try again.

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Message code	Error code	Message text/Recovery methods
DMEG630012	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv6 Address is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv6 Address is invalid. Please try again.
DMEG630013	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified Subnet Prefix Length is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified Subnet Prefix Length is invalid. Please try again.
DMEG630014	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified IPv6 Default Gateway is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified IPv6 Default Gateway is invalid. Please try again.
DMEG641000	–	Specified fixed prefetch size is invalid. Please try again.
DMEG641001	–	Specified base prefetch size is invalid. Please try again.
DMEG641002	–	Specified count of judgment sequential is invalid. Please try again.
DMEG642000	–	Specified dirty data opportunity is invalid. Please try again.
DMEG642001	–	Specified dirty data stop opportunity is invalid. Please try again.
DMEG643000	–	Specified logical unit does not exist. Please refresh information.
DMEG650000	–	Specified I/O Monitoring Time is invalid. Please specify correct value.
DMEG661013	–	The file cannot be compressed.
DMEG661014	–	Hitachi Storage Navigator Modular 2 is less than Ver.12.61.
		The file access error occurred.
		Hitachi Storage Navigator Modular 2 is Ver.12.61 or more.
		The file access error occurred. Try again.
DMEG661015	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		All performance measurement items are disabled. Please enable one or more measurement items.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		All performance measurement items are disabled. Enable at least one measurement item.
DMEG661016	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The performance measurement cannot be got because RAID groups and logical units are undefined. Please confirm RAID groups and logical units definition.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Performance data cannot be obtained because RAID groups and logical units are undefined. Please confirm the RAID groups and the logical units definitions.
DMEG661017	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Measurement items are not selected. Please select measurement item.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		No measurement items were selected. Please select a measurement item.
DMEG661018	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified interval is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified interval is invalid. Please try again.
DMEG661019	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified number of times are invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Invalid number of repetitions specified. Please try again.
DMEG661020	–	Performance data cannot be obtained because RAID groups, DP pools and logical units are not defined. Please confirm their definitions.

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Message code	Error code	Message text/Recovery methods
DMEG663000	–	All performance measurement items are disabled. Enable at least one measurement item.
DMEG663001	–	Graph data cannot be obtained because RAID groups, DP pools and logical units are not defined. Please confirm their definitions.
DMEG663002	–	Graph data cannot be obtained because RAID groups and logical units are undefined. Please confirm the RAID groups and the logical units definitions.
DMEG663003	–	Graph data cannot be obtained because library port is not set. Please confirm the library port setting.
DMEG663005	–	No detailed graph items were selected. Please select a detailed graph item.
DMEG663006	–	More than 8 detailed graph items cannot be selected. Please select the graph items again.
DMEG663007	–	Graph data of Total queue usage cannot be retrieved for Cache other than Total. Please select Total only.
DMEG663008	–	Specified interval time is invalid. Please specify correct value.
DMEG663009	–	Specified output time is invalid. Please specify correct value.
DMEG663010	–	No measurement items were selected. Please select a measurement item.
DMEG663011	–	CSV Output can not be obtained because currently the graph is running. Please stop the graph and try again.
DMEG663012	–	Hitachi Storage Navigator Modular 2 is less than Ver.12.61.
		The file access error occurred.
		Hitachi Storage Navigator Modular 2 is Ver.12.61 or more.
		The file access error occurred. Try again.
DMEG663013	–	Currently processing the stop request of graph data retrieval. Please confirm that graph data retrieval has stopped and try again.
DMEG663014	–	Specified output time is invalid. Please specify correct value. When you cannot get the CSV file, even if it inputs the time again, please re-collect the graph data.
DMEG66E000	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The performance measurement cannot be got because library port is undefined. Please confirm library port definition.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The performance measurement cannot be retrieved because the library port is undefined. Please confirm library port definition.
DMEG671000	–	Hitachi Storage Navigator Modular 2 is less than Ver.12.61.
		The file access error occurred.
		Hitachi Storage Navigator Modular 2 is Ver.12.61 or more.
		The file access error occurred. Try again.
DMEG671001	–	No DP trends are available.
DMEG671002	–	Specified prefix is invalid. Please specify correct value.
DMEG682000	–	Specified logical unit is not able to edit retention. Please check Retention Attribute of the logical unit.
DMEG682001	–	Specified Retention Term is invalid. Please specify correct value.
DMEG683000	–	The function cannot be executed because Cache Residency is disabled. Please install and enable Cache Residency and try again.
DMEG683001	–	The process cannot be performed in the single-controller system.
DMEG683002	–	A logical unit is not selected by controller 0. Please select only one logical unit and try again.
DMEG683003	–	Two or more logical units are selected by controller 0. Please select only one logical unit and try again.
DMEG683004	–	A logical unit is not selected by controller 1. Please select only one logical unit and try again.
DMEG683005	–	Two or more logical units are selected by controller 1. Please select only one logical unit and try again.
DMEG683006	–	The same logical unit is selected by controller 0 and controller 1. Please select different logical units.
DMEG684000	–	Specified password is invalid. Please retype.
DMEG684001	–	Specified passwords do not match. Please retype.
DMEG684002	–	Hitachi Storage Navigator Modular 2 is less than Ver.12.61.
		The file access error occurred.
		Hitachi Storage Navigator Modular 2 is Ver.12.61 or more.
		The file access error occurred. Try again.
DMEG684003	–	Please specify the file.

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Message code	Error code	Message text/Recovery methods
DMEG684004	–	Specified file is invalid. Confirm the file format.
DMEG684005	–	Specified password is invalid. Please retype.
DMEG687001	–	Specified Delay Planned Shutdown is unusable, please specify correct value.
DMEG687002	–	Specified Vendor ID is unusable, please specify correct value.
DMEG687003	–	Specified Product ID is unusable, please specify correct value.
DMEG687004	–	Specified ROM Microprogram Version is unusable, please specify correct value.
DMEG687005	–	Specified RAM Microprogram Version is unusable, please specify correct value.
DMEG690000	–	Specified web title name is invalid. Please specify correct value.
DMEG691000	–	Specified interval time is invalid. Please specify correct value.
DMEG691001	–	Specified processing unit size is invalid. Please specify correct value.
DMEG694000	–	There are no logical units that require execution of parity correction. To execute the parity correction, select the logical unit and try again.
DMEG694001	–	Parity correction cannot be executed. Please add all logical units to the Registered Logical Units list.
DMEG694002	–	There are no logical units that require execution of parity correction. To execute the parity correction, select the logical unit and try again.
DMEG695000	–	The new cache partition cannot be added because the number of cache partition reached the maximum.
DMEG695001	–	Specified partition size is unusable. Please specify correct size.
DMEG695002	–	The deletion cannot be executed because cache partitions 00, 01 or reserved for deletion are selected. Please confirm the selected cache partitions.
DMEG695003	–	Selected cache partition cannot be edited because it is reserved for deletion. Please confirm the reservation of cache partition.
DMEG710001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The error occurred when select the tab. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An error occurred when selecting the tab.
DMEG710002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Alert information is deleted, because the array status has changed. Close the dialog and click Refresh Information. Then, confirm the alert information again. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Alert information was deleted because the array status has changed. Close the dialog and click Refresh Information. Confirm the alert information again.

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Message code	Error code	Message text/Recovery methods
DMEG800000	–	Are you sure you want to refresh?
DMEG800001	–	Refreshed successfully.
DMEG800002	–	Currently refreshing of information.
DMEG800003	–	The error occurred in connecting RMI server. XXX Please reboot the server.
DMEG800004	–	The error occurred in registering temporary user of RMI launch. XXX Please reboot the server.
DMEG800005	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		Your session is invalid. Logout, and then login again.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.5.20.
		Your login is invalid. Close all browsers, and then login again.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Your login is invalid. Close all browsers and then login again.
DMEG800006	–	Please specify the file.
DMEG800007	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process has taken more time. Please refresh, and confirm the array status.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is taking additional time. Please refresh and confirm the array status.
DMEG800008	–	The information may have been deleted. Please refresh and confirm the array status.
DMEG800009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The configuration of array may have been updated. Please refresh.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The array configuration may have been updated. Please refresh.
DMEG80000A	–	Your session is invalid. Logout, and then login again.
DMEG80000B	–	Hitachi Storage Navigator Modular 2 is less than Ver.11.50.
		The user ID or the password at the time of login is specified with the character or the number of characters that cannot be used for the user ID or the password of Password Protection. Specify the available value of the user ID or the password at the time of login from the user ID or the password of Password Protection.
		Hitachi Storage Navigator Modular 2 is Ver.11.50 or more.
		The user ID or the password at the time of login is specified with invalid character or the number of characters that cannot be used for the user ID or the password of Password Protection. Specify the available value of the user ID or the password at the time of login from the user ID or the password of Password Protection.
DMEG800010	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Please close the subsystem dialog window and retry.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Please close the subsystem dialog window and try again.
DMEG800011	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot launch applet, because the port of RMI server is not set as normal port. Please set as normal port and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot launch the Java applet because the port of the RMI server is not set as a normal (SSL) port. Please set as a normal (SSL) port and try again.
DMEG800012	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Cannot launch applet, because the port of RMI server is not set as secure port. Please set as secure port and try again.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Cannot launch Java applet because the port of the RMI server is not set as a secure (SSL) port. Please set as a secure (SSL) port and try again.
DMEG8F0001	–	Enter your user ID.
DMEG8F0002	–	Enter your password.
DMEG8F0003	–	The user ID or password is not correct.

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Message code	Error code	Message text/Recovery methods
DMEG900000	–	The maximum number of differential management logical units has already been set.
DMEG900001	–	The configuration of array may have been updated. Please refresh.
DMEG900002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Pairs with different copy types are selected. If you manipulate multiple pairs, select pairs of the same copy type.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Pairs with different copy types are selected. To manipulate multiple pairs, select pairs of the same copy type.
DMEG900003	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Pair name contains unallowed characters.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Pair name contains disallowed characters.
DMEG900004	–	A primary volume is not selected.
DMEG900005	–	Sizes of both primary and secondary volumes do not match.
DMEG900006	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Group name is empty or contains unallowed characters.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Group name is empty or contains disallowed characters.
DMEG900008	–	The same volume is selected as primary and secondary volume. Select different volumes.
DMEG900009	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Split Description contains unallowed characters.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Split Description contains disallowed characters.
DMEG900010	–	The necessary licenses are not installed or enabled. Please install and enable necessary licenses and retry this operation.
DMEG900011	–	A secondary volume is not selected.
DMEG900012	–	A pool is not selected.
DMEG900013	–	The specified Group Number is not exit.
DMEG900014	–	You cannot set more than 2 logical units as differential management logical unit.
DMEG900015	–	Group Number is not specified.
DMEG910001	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A new Data Pool cannot be created because the number of Data Pools reached the maximum.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A new Data Pool cannot be created because the number of Data Pools has reached the maximum.
DMEG910002	–	This Data Pool Number is incorrect.
DMEG910003	–	This threshold value is incorrect.
DMEG910005	–	Failed to create Data Pool.
DMEG910006	–	There are no logical units to add Data Pool.
DMEG910007	–	There are no logical units to be added to the data pool.
DMEG910009	–	Failed to delete Data Pool.
DMEG910010	–	A failure has occurred when editing Data Pool
DMEG910011	–	Unable to edit the specified Pool Number.
DMEG910013	–	The number of added logical unit is reached the maximum.
DMEG912001	–	The necessary licenses are not installed. Please install the necessary license and retry this operation.
DMEG912002	–	A primary volume is not specified.
DMEG912003	–	Please input the secondary volume.
DMEG912004	–	The secondary volume is not correct.
DMEG912007	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Pair name is empty or Pair Name has unallowed characters.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Pair name is empty or Pair Name has disallowed characters.

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Message code	Error code	Message text/Recovery methods
DMEG912008	–	A pool isn't chosen.
DMEG912009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		DMLU isn't set. After setting a DMLU, please reexecute the wizard.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		DMLU is not set. Set the DMLU and reexecute the wizard.
DMEG912010	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A data pool isn't set. After setting a data pool, please reexecute the wizard.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A data pool is not set. Set the data pool and reexecute the wizard.
DMEG912011	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Choice or the possible logical unit doesn't exist as the Primary volume. After setting a logical unit, please reexecute the wizard.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		There are no available logical units that can be assigned as a Primary volume. Create a logical unit and reexecute the wizard.
DMEG912012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The maximum logical unit is made already. The associate volume can't be made. After deleting a logical unit of existence, please reexecute the wizard.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The maximum logical unit is made already. The associate volume cannot be made. Reexecute the wizard after deleting an existing logical unit.
DMEG912016	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		It is a LUN that has already been registered.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than Ver.9.70.
		The LUN has already been registered.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		Specified LUN is invalid. Please re-enter.
DMEG912017	–	Please input a Pair Name within {0} character.
DMEG912106	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Specified LUN is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified LUN is invalid. Please re-enter.
DMEG912107	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Drive Type and Stripe Size of sub logical units have to be same as those of unified logical unit.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Drive Type and Stripe Size of sub logical units must be same as those of unified logical unit.
DMEG912108	–	Sub logical unit is not selected.
DMEG912110	–	The LUNs of unified logical unit and sub logical unit are the same. Select logical units which have different LUNs.
DMEG912113	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cash Partitions of the unified logical unit and the sub logical unit have to be in case of besides 00 or 01 and an identical cash partition.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Cache Partitions of the unified logical unit and the sub logical unit must be either 00 or 01 and with an identical cache partition.
DMEG912114	–	Sub logical unit does not exist.

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Message code	Error code	Message text/Recovery methods
DMEG912903	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Cannot create logical unit, because there is no RAID groups that have free spaces.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than 7.00.
		Cannot create logical unit because there are no RAID groups that have free space.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.
		Cannot create logical unit because there are no DP pool or RAID groups that have free space. Please create new DP pool or RAID group and try again.
DMEG912904	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The capacity is a blank. Please input the capacity.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The capacity field is empty. Please enter the capacity.
DMEG912905	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The capacity is a blank. Please input the capacity.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An illegal character was used for the capacity.
DMEG914003	–	Failed to delete logical units for SnapShot.
DMEG914004	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The specified LUN is invalid. Please specify correct value.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		Specified LUN is invalid. Please re-enter.
DMEG914005	–	Specified capacity is invalid. Please specify a correct value.
DMEG914006	–	The new logical unit cannot be added because the number of logical units reached the maximum.
DMEG914008	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		It is a LUN that has already been registered.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		This LUN has already been registered.
DMEG916001	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The pair name is a blank. Please input the pair name.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The pair name is a blank. Please re-enter.
DMEG916002	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		An illegal character is used for the pair name.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An illegal character was used for the pair name.
DMEG916003	–	It doesn't belong to CTG.
DMEG916004	–	The speed of the copy exceeds the range.
DMEG916005	–	The copy type is illegal.
DMEG916006	–	Pair information is illegal.
DMEG916007	–	The license is not open lock. Please execute a necessary license again after of an open lock.
DMEG916008	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Two LU or more has been selected.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Two LUs or more have been selected.
DMEG916009	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The pair doesn't exist. Please confirm whether there is a pair.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The pair does not exist. Please confirm that a pair exists.

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Message code	Error code	Message text/Recovery methods
DMEG916010	–	A primary volume is not specified. Please specify a primary volume.
DMEG916011	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. LUN of PVOL is illegal. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The LUN of PVOL is illegal.
DMEG916012	–	CTG information is illegal.
DMEG916013	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The group number is a blank. Please input the group number. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The group number is a blank. Please enter a group number.
DMEG916014	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The range where the group number can be input is exceeded. Please input it within the range. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The group number range has been exceeded. Please enter a correct range.
DMEG916015	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is used for the group number. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character was used for the group number.
DMEG916016	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The group name is a blank. Please input the group name which exists. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The group name is a blank. Please enter an existing group name.
DMEG916017	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is used for the group name. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character has been used for the group name.
DMEG916018	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The secondary volume is a blank. Please input the secondary volume. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The secondary volume is a blank. Please enter the secondary volume.
DMEG916019	–	The Pool Number of Local Array has not been selected. Please select the Pool Number of Local Array.
DMEG916020	–	The pool number is illegal.
DMEG916021	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The speed of the copy is illegal. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The copy speed is illegal.
DMEG916024	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. Pool Number of Remote Array is a blank. Please input the Pool Number of Remote Array. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The pool number of the Remote Array is a blank. Please enter the pool number of Remote Array.
DMEG916025	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. A Primary volume or the Secondary volume is illegal. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. Either the PVOL or the SVOL is illegal.
DMEG916026	–	The fence level is illegal.
DMEG916027	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is used for the secondary volume. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character was used for the secondary volume.

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Message code	Error code	Message text/Recovery methods
DMEG916028	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		An illegal character is used for the Pool Number of Remote Array.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		An illegal character was used for the pool number of Remote Array.
DMEG916029	–	Please input a Pair Name within {0} character.
DMEG916030	–	Please input a Group Name within {0} character.
DMEG916031	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Because a remote pass is not set the pair cannot be generated.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Because a remote path is not set the pair cannot be generated.
DMEG916032	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		Because LU that becomes the candidate of a primary volume doesn't exist the pair cannot be generated.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The pair could not be created because there are no available logical units for the Primary volume.
DMEG916033	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Because the data pool doesn't exist the pair cannot be generated.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Because the data pool does not exist the pair cannot be generated.
DMEG916034	–	Remote Pair does not exist.
DMEG916035	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Pairs with different copy types are selected. If you manipulate multiple pairs, select pairs of the same copy type.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Pairs with different copy types are selected. To manipulate multiple pairs, select pairs of the same copy type.
DMEG916036	–	The data pool was not able to be acquired.
DMEG916037	–	It is necessary to input secondary volume by {0} characters.
DMEG916038	–	It is necessary to input Pool Number of Remote Array by {0} characters.
DMEG918002	–	This Remote Array ID is incorrect.
DMEG918003	–	This Bandwidth is incorrect.
DMEG918004	–	This Remote Path Name is incorrect.
DMEG918005	–	Failed to add Remote Path.
DMEG918006	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A failure has occurred when editing Remote Path.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A failure has occurred while editing Remote Path.
DMEG918007	–	Failed to delete Remote Path.
DMEG918008	–	Available local port does not exist.
DMEG918009	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This IP Address is incorrect.(Remote Path 0)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The IP Address is incorrect.(Remote Path 0)
DMEG918010	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This TCP Port is incorrect.(Remote Path 0)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The TCP Port is incorrect.(Remote Path 0)
DMEG918011	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This CHAP Secret is incorrect.(Remote Path 0)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The CHAP Secret is incorrect.(Remote Path 0)

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Message code	Error code	Message text/Recovery methods
DMEG918012	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified CHAP Secret is not matched.(Remote Path 0)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to match the CHAP Secret.(Remote Path 0)
DMEG918013	–	A Remote Path already exists.
DMEG918014	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This IP Address is incorrect.(Remote Path 1)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The IP Address is incorrect.(Remote Path 1)
DMEG918015	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This TCP Port is incorrect.(Remote Path 1)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The TCP Port is incorrect.(Remote Path 1)
DMEG918016	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This CHAP Secret is incorrect.(Remote Path 1)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The CHAP Secret is incorrect.(Remote Path 1)
DMEG918017	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified CHAP Secret is not matched.(Remote Path 1)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Failed to match the CHAP Secret.(Remote Path 1)
DMEG918018	–	Remote Path does not exist.
DMEG918102	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		This CycleTime is incorrect.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The cycle time is incorrect.
DMEG918106	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		A failure has occurred when editing Options.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		A failure has occurred while editing Options.
DMEG918201	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Local Array ID is a blank. Please input Local Array ID.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Local Array ID is blank. Please input Local Array ID.
DMEG918202	–	Input Local Array ID has already been made.
DMEG918210	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		It is necessary to input Local Array ID by 8 characters.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		You must enter the Local Array ID using 8 characters.
DMEG918212	–	The secret is not correct. Please input a correct value.(Remote Path 0)
DMEG918213	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified Secret is not matched.(Remote Path 0)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified Secret does not match.(Remote Path 0)
DMEG918214	–	The secret is not correct. Please input a correct value.(Remote Path 1)
DMEG918215	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Specified Secret is not matched.(Remote Path 1)
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		Specified Secret does not match.(Remote Path 1)

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Message code	Error code	Message text/Recovery methods
DMEG918216	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is input to the Local Array ID. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character was input to the Local Array ID.
DMEG918217	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. CHAP of a remote port has already been set. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The CHAP of a remote port has already been set.
DMEG918218	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The bandwidth is a blank. Please input the bandwidth. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The bandwidth is blank. Please input the bandwidth.
DMEG918219	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is used for the bandwidth. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character was used for the bandwidth.
DMEG918220	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. The cycleTime is a blank. Please input the cycleTime. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. The cycle time was not specified. Please input the cycle time.
DMEG918221	–	Hitachi Storage Navigator Modular 2 is less than Ver.5.20. An illegal character is used for the cycleTime. Hitachi Storage Navigator Modular 2 is Ver.5.20 or more. An illegal character was used for the cycle time.
DMEG920000	–	The function cannot be executed because Modular Volume Migration is disabled. Please install and enable Modular Volume Migration and try again.
DMEGFF0000	–	The parameter is invalid.
DMEGFF0001	–	The function is not supported.
DMEGFF0002	–	You have no permission. Please contact the Account Administrator and confirm your permission.

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Message code	Error code	Message text/Recovery methods
DMEI000016	–	Unauthorized user. The user with administrators authority is allowed to execute the operation.
DMEI000021	–	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		Unable to detect the directory where HiCommand Suite Common Components are installed.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		Unable to detect the directory where Hitachi Storage Command Suite Common Component are installed.
DMEI000022	–	Unable to detect the "hcmdssrv" command.
DMEI000101	–	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		Unable to continue installation, as some of HiCommand Suite Common Components Services are not stopped. Please refer to manuals of applications using HiCommand Suite Common Components to stop all of the service of common components.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		Unable to continue installation, as some of Hitachi Storage Command Suite Common Component Services are not stopped. Please refer to manuals of applications using Hitachi Storage Command Suite Common Component to stop all of the service of common components.
DMEI000102	–	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		Unable to get the status of HiCommand Suite Common Components Service. Some applications using HiCommand Suite Common Components are using those services. Please stop those services according to the manual of those applications.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		Unable to get the status of Hitachi Storage Command Suite Common Component Service. Some applications using Hitachi Storage Command Suite Common Component are using those services. Please stop those services according to the manual of those applications.
DMEI000199	–	An undefined error occurred.
DMEI000202	–	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		Unable to continue installation since there are HiCommand suite common components configured as active clustering. Please refer to manuals of applications using HiCommand suite common components to configure all of common components as non clustering. If no other applications are used, please release clustering configuration by "hcmdsdbclustersetup /removecluster" command.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		Unable to continue installation since there are Hitachi Storage Command Suite Common Component configured as active clustering. Please refer to manuals of applications using Hitachi Storage Command Suite Common Component to configure all of common components as non clustering. If no other applications are used, please release clustering configuration by "hcmdsdbclustersetup /removecluster" command.
DMEI000203	–	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		Unable to continue installation since there are HiCommand suite common components configured as passive clustering. Please refer to manuals of applications using HiCommand suite common components to configure all of common components as non clustering. If no other applications are used, please release clustering configuration by "hcmdsdbclustersetup /removecluster" command.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		Unable to continue installation since there are Hitachi Storage Command Suite Common Component configured as passive clustering. Please refer to manuals of applications using Hitachi Storage Command Suite Common Component to configure all of common components as non clustering. If no other applications are used, please release clustering configuration by "hcmdsdbclustersetup /removecluster" command.
DMEI000298	–	Failed to get the status of the Database. Stop all applications and services (such as security, process monitoring) and retry to install.
DMEI000299	–	An undefined error occurred.
DMEI000398	–	An attempt to stop the services of Hitachi Storage Command Suite Common Component has failed. Please wait a few minutes, and then try again.
DMEI000399	–	An undefined error occurred.
DMEI000401	–	An attempt to stop the services of Hitachi Storage Command Suite Common Component has been time out. Please wait a few minutes, and then try again.

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Message code	Error code	Message text/Recovery methods
DMEI000402	–	An internal error occurred. Reboot the computer, then restart the installer.
DMEI000498	–	Unable to get the status of Hitachi Storage Command Suite Common Component service.
DMEI000499	–	An undefined error occurred.
DMEI000501	–	HiRDBEmbeddedEdition_HD0 service has not started. Checking HiRDBEmbeddedEdition_HD0 service has started, then restart the installer.
DMEI000502	–	HiRDBClusterService_HD0 service has not stopped. Checking HiRDBClusterService_HD0 service has stopped, then restart the installer.
DMEI001098	–	Hitachi Storage Navigator Modular 2 is less than Ver.9.70. Unable to start HBase. Hitachi Storage Navigator Modular 2 is Ver.9.70 or more. Unable to start Hitachi Storage Command Suite Common Component.
DMEI010101	–	Failed to start internal process of the installer. The reason were possibly the lack of memory or system resources. Stop other applications and services, then retry installation.
DMEI010102	–	"X:\\hcmdsrtn.inst" can not be deleted. Make sure the file is not used by other applications and that is not read-only.
DMEI010103	–	"X:\\hcmdsrtn.inst" could not be read. Make sure the file is not used by other applications.
DMEI010104	–	An internal error occurred. Force uninstall and re-install.
DMEI010105	–	The files in the "suite" directory cannot be read. Please install again after confirming that the files which are listed in the "suite_file_config" file in the provided CD-ROM have existed.
DMEI010111	–	As there was not enough disk space, files could not be written in the directory "<HBaseDirectory>" or its subdirectories. Please delete unnecessary files or change the directory for installation, then retry installation.
DMEI010112	–	An internal error occurred.
DMEI010121	–	Unable to delete entries of registry. Make sure not to be changed the permission to edit registry, and retry installation.
DMEI010122	–	Unable to read entries of registry. Make sure not to be changed the permission to edit registry, and retry installation.
DMEI010124	–	An internal error occurred.
DMEI010198	–	An internal error occurred.
DMEI010199	–	An undefined error occurred.
DMEI010398	–	An internal error occurred.
DMEI010399	–	An undefined error occurred.
DMEI010401	–	An internal error occurred.
DMEI010498	–	An internal error occurred.
DMEI010499	–	An undefined error occurred.
DMEI010501	–	There was not enough disk space and files could not be written in the directory "<SNM2Directory>" or its subdirectories. Please delete unnecessary files or change the directory for installation, then restart the installer.
DMEI010502	–	There was not enough disk space and file could not be written in the directory "<HBaseDirectory>" or its subdirectories. Please delete unnecessary files or change the directory for installation, then restart the installer.
DMEI010503	–	There was not enough disk space and files could not be written in the directory "<HBaseDirectory>" or its subdirectories. Please delete unnecessary files or change the directory for installation, then restart the installer.
DMEI010598	–	An internal error occurred.
DMEI010599	–	An undefined error occurred.
DMEI010801	–	An internal error occurred.
DMEI010802	–	An internal error occurred.
DMEI010811	–	Unable to create the repository backup file "<SNM2Directory>\\install\\snmrepsetup-old.xml". Make sure the file is not used by other applications and that is not read-only.
DMEI010898	–	An internal error occurred.

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Message code	Error code	Message text/Recovery methods
DMEI010899	–	An undefined error occurred.
DMEI011201	–	An internal error occurred.
DMEI011298	–	An internal error occurred.
DMEI011299	–	An undefined error occurred.
DMEI011398	–	An internal error occurred.
DMEI011399	–	An undefined error occurred.
DMEI011498	–	An internal error occurred.
DMEI011499	–	An undefined error occurred.
DMEI011598	–	An internal error occurred.
DMEI011599	–	An undefined error occurred.
DMEI012101	–	Unable to copy files.
DMEI012198	–	Unable to write files in the directory "<HBaseDirectory>" or its subdirectories. Make sure the files and the directories are not used by other applications and they are not read-only.
DMEI012298	–	An error occurred when deleting installation temporary files. Make sure the files and the directory are not used by other applications and they are not read-only.
DMEI012398	–	Unable to write files in the directory "<HBaseDirectory>" or its subdirectories. Make sure the files and the directories are not used by other applications and they are not read-only.
DMEI013101	–	Unable to start the applet server.
DMEI013198	–	Failed to register SNM2Server as a service to the operating system.
DMEI014001	–	The path is invalid. Please specify path to directory on local disk.
DMEI014002	–	Invalid IP address.
DMEI014003	–	Invalid port number.
DMEI014004	–	Invalid port number.
DMEI014005	–	Out of disk space. 1.5GB free space is required for installation.
DMEI014006	–	The path name contains invalid character's. Valid chanters for the path name are only a-z, 0-9, "_", "(", ")" and " "(space).
DMEI014007	–	Cannot install in the root folder of a drive. Please specify the subfolder.
DMEI030801	–	An internal error occurred.
DMEI030802	–	An internal error occurred.
DMEI030898	–	An internal error occurred.
DMEI030899	–	An undefined error occurred.
DMEI040101	–	Unable to start process in the uninstaller. The reason were possibly the lack of memory or system resources. Stop all other applications and services, then retry uninstallation.
DMEI040102	–	"X:\\hcmdsrtn.uit" could not be deleted. Make sure the file is not used by other applications and that is not read-only.
DMEI040103	–	"X:\\hcmdsrtn.uit" could not be read. Make sure the file is not used by other applications and the read-permission of the file.
DMEI040104	–	An internal error occurred.
DMEI040106	–	An internal error occurred.
DMEI040107	–	An internal error occurred.
DMEI040121	–	Unable to delete entries of registry. Make sure not to be changed the permission to edit registry, and retry uninstallation.
DMEI040198	–	An internal error occurred.
DMEI040199	–	An undefined error occurred.
DMEI040398	–	An internal error occurred.
DMEI040399	–	An undefined error occurred.
DMEI040401	–	An internal error occurred.
DMEI040498	–	An internal error occurred.
DMEI040499	–	An undefined error occurred.
DMEI040801	–	An internal error occurred.

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Message code	Error code	Message text/Recovery methods
DMEI040802	–	An internal error occurred.
DMEI040811	–	Unable to delete the repository configuration fie "<SNM2Directory>\\install\\snmrepsetup-old.xml". Make sure the file is not used by other applications and that is not read-only.
DMEI040898	–	An internal error occurred.
DMEI040899	–	An undefined error occurred.
DMEI040901	–	An internal error occurred.
DMEI040902	–	Failed to access the database. Stop all applications, services of security monitoring and process monitoring, then retry uninstallation.
DMEI040998	–	An internal error occurred.
DMEI040999	–	An undefined error occurred.
DMEI041201	–	An internal error occurred.
DMEI041298	–	An internal error occurred.
DMEI041299	–	An undefined error occurred.
DMEI041398	–	An internal error occurred.
DMEI041399	–	An undefined error occurred.
DMEI041498	–	An internal error occurred.
DMEI041499	–	An undefined error occurred.
DMEI041598	–	An internal error occurred.
DMEI041599	–	An undefined error occurred.
DMEI042198	–	An error occurred when deleting some files in "<HBaseDirectory>" or its subdirectories. Make sure the files and the directories are not used by other applications and they are not read-only.
DMEI043198	–	Failed to release SNM2Server as a service from the operating system.
DMEI044198	–	An internal error occurred.
DMEI044199	–	An undefined error occurred.
DMEI044201	–	An internal error occurred.
DMEI044211	–	Time out occurred at the starting of the database. Stop all applications, services of security monitoring and process monitoring, then retry uninstallation.
DMEI044212	–	Time out occurred at the starting of the database. Stop all applications, services of security monitoring and process monitoring, then restart the installer.
DMEI044297	–	Failed to get status of Database. Stop all applications, services of security monitoring and process monitoring, then restart the installer.
DMEI044298	–	Failed to get status of Database. Stop all applications, services of security monitoring and process monitoring, then retry uninstallation.
DMEI044299	–	An undefined error occurred.
DMEI044301	–	An internal error occurred.
DMEI044398	–	An internal error occurred.
DMEI044399	–	An undefined error occurred.
DMEI044401	–	An internal error occurred.
DMEI044411	–	Time out occurred at the internal process. Stop all applications, services of security monitoring and process monitoring, then retry uninstallation.
DMEI044412	–	Time out occurred at the internal process. Stop all applications, services of security monitoring and process monitoring, then restart the installer.
DMEI044497	–	Failed to get status of Database. Stop all applications, services of security monitoring and process monitoring, then restart the installer.
DMEI044498	–	Failed to get status of Database. Stop all applications, services of security monitoring and process monitoring, then retry uninstallation.
DMEI044499	–	An undefined error occurred.

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Message code	Error code	Message text/Recovery methods
DMEI050101	–	Unable to continue force uninstallation, as some of other Hitachi Storage Command Suite products are installed.
DMEI050102	–	An attempt to stop the services of Hitachi Storage Command Suite Common Component has failed.
DMEI050103	–	The error occurred in force uninstallation of the Hitachi Storage Command Suite Common Component.
DMEI050104	–	An error occurred when deleting some files in "<HBaseDirectory>" or its subdirectories. Make sure the files and the directories are not used by other applications and they are not read-only.

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Message code	Error code	Message text/Recovery methods
DMER010001	0x05010001	The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.
DMER010002	0x05010002	The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.
DMER010003	0x05010003	An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.
DMER010004	0x05010004	The owner controller of the LUs to be paired is detached. Retry.
DMER010005	0x05010005	The owner controller of the LUs to be paired is detached. Retry.
DMER010006	0x05010006	The owner controller of the LUs to be paired is detached. Retry.
DMER010007	0x05010007	The owner controller of the LUs to be paired is detached. Retry.
DMER010009	0x05010009	The owner controller of the LUs to be paired is detached. Retry after waiting for a while.
DMER01000A	0x0501000A	The owner controller of the LUs to be paired is detached. Retry after waiting for a while.
DMER01000B	0x0501000B	The owner controller of the LUs to be paired is detached. Retry after waiting for a while.
DMER010019	0x05010019	The pair operation command is a time-out. Retry after waiting for a while.
DMER010065	0x05010065	Since the specified P-VOL requires a change of an ownership of LU, it is undergoing the execution of the ownership of LU change. Retry after waiting for a while.
DMER010066	0x05010066	Though the specified P-VOL requires a change of an ownership of LU, the controller to be changed is blocked. Retry after waiting for a while.
DMER010067	0x05010067	Since the specified P-VOL requires a change of an ownership of LU, the execution of the ownership of LU change has been started. Retry after waiting for a while.
DMER011001	0x05011001	The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.
DMER011002	0x05011002	The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.
DMER011003	0x05011003	An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.
DMER012001	0x05012001	The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.
DMER012002	0x05012002	The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.
DMER012003	0x05012003	An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.
DMER020000	0x05020000	The pair status of the P-VOL is other than Simplex. Check the pair status of the LU.
DMER020001	0x05020001	The status of the P-VOL is other than normal and regressive. Check the status of the LU.
DMER020002	0x05020002	The P-VOL is a Cache Residency LU. Check the status of the LU.
DMER020003	0x05020003	The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.
DMER020004	0x05020004	The P-VOL is a command device. Check the status of the LU.
DMER020005	0x05020005	The primary sequence number is different from the own Array ID. Check the Array ID.
DMER020006	0x05020006	Both of the two paths are abnormal. Check the status of the path.
DMER020007	0x05020007	The P-VOL has been defined as a SubLU of a unified LU. Check the status of the LU.
DMER020009	0x05020009	There exist maximum number of pairs already. Delete the unnecessary pairs.
DMER02000D	0x0502000D	The P-VOL is in a status other than Split and Failure. Check the pair status of the LU.
DMER02000E	0x0502000E	The status of the P-VOL is other than normal and regressive. Check the pair attribute of the LU.
DMER02000F	0x0502000F	The number of the LU to be paired is different. Check the specified LUN.
DMER020010	0x05020010	The primary sequence number is different from the own Array ID. Check the Array ID.
DMER020011	0x05020011	Hitachi Storage Navigator Modular 2 is less than Ver.11.72.
		Both of the two paths are abnormal. Check the status of the path.
		Hitachi Storage Navigator Modular 2 is Ver.11.72 or more.
		Both of the two paths are abnormal. Check the status of the path. Also, check the S-VOL status. When it is Takeover, the S-VOL is available for I/O.
DMER020012	0x05020012	The specified P-VOL is in a status other than Synchronizing and Paired. Check the pair status of the LU.
DMER020014	0x05020014	The current Array ID differs from the number that was set initially. Check the Array ID.
DMER020016	0x05020016	The number of the LU to be paired is different. Check the specified LUN.
DMER020017	0x05020017	The primary sequence number is different from the own Array ID. Check the Array ID.
DMER020018	0x05020018	The S-VOL pair cancellation instructions to a P-VOL or the pair cancellation instructions to an S-VOL was received. Check the pair status of the LU.

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DMER020020	0x05020020	The Asynchronous mode is turned on. The Asynchronous mode is not supported.
DMER020021	0x05020021	The fence level is STATUS. Make sure of the specified fence level.
DMER020023	0x05020023	The P-VOL is a volume of ShadowImage. It is in the Failure status and cannot accept Read/Write instructions. Check the pair status of the LU.
DMER020024	0x05020024	The P-VOL is undergoing the restoration of ShadowImage pair. Check the pair status of the LU.
DMER020025	0x05020025	The P-VOL received an instruction to swap pair. Check the pair attribute of the LU.
DMER020026	0x05020026	The pair status is not Takeover. Check the pair status.
DMER020027	0x05020027	The S-VOL received an instruction to resynchronize pair. Check the pair attribute of the LU.
DMER020028	0x05020028	The volume is a P-VOL of ShadowImage. It is in the Failure status and cannot accept Read/Write instructions. Place the P-VOL concerned in the Simplex status and create the pair again.
DMER020029	0x05020029	The volume is a P-VOL of ShadowImage and undergoing a reverse copy. Check the pair status of the LU.
DMER02002A	0x0502002A	The P-VOL received an instruction to be taken over. Check the pair status of the LU.
DMER02002B	0x0502002B	It is in the Simplex or Synchronizing status. Check the pair status of the LU.
DMER02002C	0x0502002C	The secondary sequence number is different from the Array ID. Check the Array ID.
DMER02002D	0x0502002D	The S-VOL received an instruction to be taken over. Check the pair status of the LU.
DMER02002E	0x0502002E	The pair status of the P-VOL is Simplex or Synchronizing. Check the pair status of the LU.
DMER02002F	0x0502002F	The primary sequence number is different from the Array ID. Check the Array ID.
DMER020030	0x05020030	The S-VOL received the suspension. Check the pair status of the LU.
DMER020031	0x05020031	The capacity is beyond the limits of support. Split the unnecessary pairs.
DMER020032	0x05020032	The P-VOL is configured as RAID 0. Check the RAID level of the specified LU.
DMER020033	0x05020033	The specified LU is an S-VOL of ShadowImage and it is in a pair status other than Split. Check the pair status of the LU.
DMER020035	0x05020035	The volume is an S-VOL of ShadowImage and it is in a pair status other than Split. Check the pair status of the LU.
DMER020036	0x05020036	The volume is a P-VOL of SnapShot and being restored. Check the pair status of the LU.
DMER020037	0x05020037	The volume is a P-VOL of SnapShot It is in the Failure status and cannot accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.
DMER020038	0x05020038	The volume is a P-VOL of SnapShot and the mate to it has already been paired by Remote Replication. Check the pair status of the LU.
DMER020039	0x05020039	The volume is a V-VOL of SnapShot and it is in a status other than Split of SnapShot. Check the pair status of the LU.
DMER02003A	0x0502003A	The volume is a V-VOL of SnapShot. The related P-VOL of SnapShot is being restored or has been placed in the Failure status during a restoration. Check the pair status of the LU.
DMER02003B	0x0502003B	The specified LU is comprised in a SnapShot pair and it has already been cascaded with a Remote Replication pair. Check the pair status of the LU.
DMER02003C	0x0502003C	The specified LU is comprised in a SnapShot pair and it has already been cascaded with a Remote Replication pair. Check the pair status of the LU.
DMER02003D	0x0502003D	The volume is a P-VOL of SnapShot and being restored. Check the pair status of the LU.
DMER02003E	0x0502003E	The volume is a P-VOL of SnapShot. It is in the Failure status and cannot accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL related to Simplex and create the pair again.
DMER02003F	0x0502003F	The volume is a V-VOL of SnapShot and it is in a status other than Split of SnapShot. Check the pair status of the LU.
DMER020040	0x05020040	The volume is a P-VOL of SnapShot. It is being restored or in the Failure status and cannot accept Read/Write instructions. Check the pair status of the LU.
DMER020042	0x05020042	The RAID level differs between the MainLU and SubLU. Check that the RAID level of the specified LU is the same as that expected.
DMER020043	0x05020043	The number of data disks differs between the MainLU and SubLU. Check that the number of data disks of the specified LU is the same as that expected.
DMER020045	0x05020045	The specified LU is a V-VOL of SnapShot. The P-VOL of the related SnapShot pair is a unified LU, whose MainLU and SubLU are different in RAID level. Check that the RAID level of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.

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Message code	Error code	Message text/Recovery methods
DMER020046	0x05020046	The specified LU is a V-VOL of SnapShot. The P-VOL of the related SnapShot pair is a unified LU, whose MainLU and SubLU are different in number of data disks. Check that the number of data disks of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.
DMER020047	0x05020047	Data of the Remote Replication P-VOL is partially destroyed. Issue the SnapShot instruction (to change the status from Paired to Split) to the SnapShot pair again, and then create the pair again.
DMER020048	0x05020048	Data of the Remote Replication P-VOL is partially destroyed. Format the specified LU after getting backup data of it. Then restore the backup data.
DMER02004B	0x0502004B	The specified P-VOL is in the Failure (S-VOL Switch) status of ShadowImage. Request service personnel to replace drives that compose the P-VOL. Format them after the replacement then resynchronize the pair.
DMER02004D	0x0502004D	The DM-LU is not set. Retry after setting the DM-LU.
DMER02004E	0x0502004E	The DM-LU cannot be specified as P-VOL. Check the status of the LU.
DMER02004F	0x0502004F	Validity of the license expired. Purchase the license.
DMER020052	0x05020052	The remote SnapShot split request was accepted in the Remote Replication environment. The remote SnapShot split request is not supported in the Remote Replication environment.
DMER020053	0x05020053	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER020054	0x05020054	The specified P-VOL is undergoing the migration. Check the pair status of the LU.
DMER020055	0x05020055	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER020056	0x05020056	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER020057	0x05020057	The specified function is not supported in a remote array. Check the remote array.
DMER020058	0x05020058	When creating pairs with group is specified, the specified group ID is beyond the limits of supported. Check the specified group ID.
DMER020059	0x05020059	The pair status of the specified S-VOL does not allow you to create a pair. Check the pair status of the specified S-VOL. on both local and remote arrays.
DMER02005A	0x0502005A	The command was received in unit of group at the time of resynchronization. Check the specified value.
DMER02005B	0x0502005B	When the unit of group is specified, the specified S-VOL is not created pair with group. Check the status of the LU.
DMER02005C	0x0502005C	When the unit of group is specified, there is a P-VOL in the same group. Check the group ID.
DMER02005D	0x0502005D	When the unit of group is specified, there is no pair, which is in the Paired, Split, or Failure status, in the same group. Check the pair status of LU in the group.
DMER02005E	0x0502005E	When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.
DMER02005F	0x0502005F	When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.
DMER020060	0x05020060	When the unit of group is specified, there is no pair, which is in the Paired, Split, or Failure status, in the same group. Check the pair status of LU in the group.
DMER020061	0x05020061	When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.
DMER020062	0x05020062	When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.
DMER020063	0x05020063	When the unit of group is specified, there is no pair, which is in the Synchronizing or Paired status, in the same group. Check the pair status of LU in the group.
DMER020064	0x05020064	The pair cancellation instructions was executed for the range that was not supported. Check the specified value.
DMER020065	0x05020065	When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.
DMER020066	0x05020066	When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.
DMER020067	0x05020067	When the unit of group is specified, the specified S-VOL is not created pair with group. Check the status of the LU.
DMER020068	0x05020068	When the unit of group is specified, there is a P-VOL in the same group. Check the group ID.

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DMER020069	0x05020069	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The specified secondary sequence number does not match with the array serial number. Check the specified command device number.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote path connected to the specified remote array does not exist. Retry after creating the remote path from the local array to the remote array of the specified remote Array ID.
DMER02006A	0x0502006A	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER02006B	0x0502006B	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER02006C	0x0502006C	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER02006D	0x0502006D	There are other pairs in the group, whose fence level is not the same as the one specified. Confirm the fence level of the pair you are creating.
DMER02006E	0x0502006E	There are other pairs in the group, whose P-VOL and S-VOL are swapped. Confirm the array on which you are executing the command.
DMER02006F	0x0502006F	The specified LU is the P-VOL or S-VOL of a ShadowImage pair that the status is Split Pending or Paired Internally Synchronizing. Check the status of the ShadowImage pair.
DMER020070	0x05020070	Migration status indicates a status other than Not Started. Check the Migration status.
DMER020071	0x05020071	Migration mode indicates Migration. Check the migration mode.
DMER020072	0x05020072	The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER020073	0x05020073	An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs in the specified group. Retry after the RAID group status becomes Normal.
DMER020074	0x05020074	The specified CTG number has been used into other remote replication pair with the remote array. Retry after specifying the number other than specified CTG number.
DMER020075	0x05020075	The local array can not execute create pair with the specified remote array because the maximum number of the connected arrays is beyond the limits. Retry after deleting the all remote replication pair with the another remote array.
DMER020076	0x05020076	The local array can not execute create pair with the specified remote array because the maximum number of the connected arrays is beyond the limits. Retry after deleting the all remote replication pair with the another remote array.
DMER020077	0x05020077	The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.
DMER020078	0x05020078	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER020079	0x05020079	The specified P-VOL is a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the ShadowImage pair that the specified P-VOL is part of.
DMER02007A	0x0502007A	The specified P-VOL is a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the ShadowImage pair that the specified P-VOL is part of.
DMER02007B	0x0502007B	The specified P-VOL is an S-VOL of ShadowImage pair those P-VOL is part of another ShadowImage pair that S-VOL is the LU created in DP pool. Confirm all the S-VOL of ShadowImage pair that shares the P-VOL with the ShadowImage pair that specified P-VOL is part of.
DMER02007C	0x0502007C	Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.
DMER02007D	0x0502007D	The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.
DMER02007E	0x0502007E	The operation can not be performed due to insufficient capacity of the DP Pool for the specified S-VOL. Check the capacity of the DP Pool.
DMER02007F	0x0502007F	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER020080	0x05020080	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER020081	0x05020081	The pair status of the specified S-VOL is Simplex, Synchronizing, or Paired. Check the pair status of the LU.
DMER020082	0x05020082	There are no pairs in the specified group whose status is Takeover. Check the pair status.
DMER02303D	0x0502303D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.
DMER02403D	0x0502403D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.

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DMER030000	0x05030000	The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.
DMER030001	0x05030001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.
DMER030002	0x05030002	The operation to change LU is in progress. Retry after waiting for a while.
DMER030003	0x05030003	There is no partition to which the current partition is to be changed. Retry after waiting for a while.
DMER030004	0x05030004	The directory configuration is being changed. Reboot the subsystem.
DMER030005	0x05030005	The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.
DMER030006	0x05030006	The pair status of the P-VOL is other than Simplex, or a V-VOL does not exist. Check the pair status of the LU.
DMER030007	0x05030007	The pair status is other than Simplex. Check the pair status of the LU.
DMER030008	0x05030008	The specified P-VOL is a V-VOL. Check the pair status of the LU.
DMER030009	0x05030009	The specified V-VOL is a P-VOL. Check the pair status of the LU.
DMER03000B	0x0503000B	The group ID is out of appropriate range. Make sure of the specified group ID number.
DMER03000D	0x0503000D	The same MU number was specified within the same P-VOL. Make sure of the specified MU number.
DMER03000E	0x0503000E	The process is in progress. Retry after waiting for a while.
DMER030010	0x05030010	The pair status is other than Split. Check the pair status of the LU.
DMER030011	0x05030011	The object LUN is not the same as the expected one. Check the specified LU.
DMER030012	0x05030012	The instruction of forced suspension was received. Make sure of the command.
DMER030014	0x05030014	The P-VOL is in a status other than normal and regressive. Check the status of the LU.
DMER030015	0x05030015	The data pool LU being used is in a status other than normal and regressive. Check the status of the pool LU.
DMER030017	0x05030017	The pair attribute of the P-VOL is V-VOL. Check the status of the LU.
DMER030018	0x05030018	The pair attribute of the V-VOL is P-VOL. Check the status of the LU.
DMER03001A	0x0503001A	The same MU number was specified within the same P-VOL. Make sure of the specified MU number.
DMER03001B	0x0503001B	The process is in progress. Retry after waiting for a while.
DMER03001D	0x0503001D	The object LUN is not the same as the expected one. Check the specified LU.
DMER03001E	0x0503001E	The specified V-VOL is not specified to be grouped(Group ID suspension). Check the pair attribute of the LU.
DMER03001F	0x0503001F	The V-VOL, which is an object of the batch suspension, is in a status other than Paired(Group ID suspension). Check the pair status of the LU.
DMER030020	0x05030020	The process is in progress. Retry after waiting for a while.
DMER030021	0x05030021	The process is in progress. Retry after waiting for a while.
DMER030022	0x05030022	The pair status of the V-VOL is illegal. Check the pair status of the LU.
DMER030023	0x05030023	The object LUN is not the same as the expected one. Check the specified LU.
DMER030028	0x05030028	The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.
DMER030029	0x05030029	The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.
DMER03002A	0x0503002A	The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.
DMER03002B	0x0503002B	The pair status was changed to Failure because the process terminated abnormally. Place the pair concerned in the Simplex status once, and then create the pair again.
DMER03002C	0x0503002C	The specified P-VOL has excess pinned data (at the time of a restoration only). Retry after eliminating pinned data.
DMER03002E	0x0503002E	Navigator was received by the control information on 8-byte form. Check the environment of Navigator.
DMER03002F	0x0503002F	There are 64 or more LUs being restored. Retry after the restoration is completed.
DMER030030	0x05030030	The P-VOL is being restored. Retry after the restoration is completed.
DMER030031	0x05030031	Data of the V-VOL is partially destroyed. Make a backup from the S-VOL to a tape device, etc. and then restore the data to the P-VOL.
DMER030032	0x05030032	The process is in progress. Retry after waiting for a while.

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DMER030033	0x05030033	Because the process terminated abnormally, the pair status was changed to Failure and the P-VOL became unable to accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.
DMER030034	0x05030034	Because the process terminated abnormally, the pair status was changed to Failure and the P-VOL became unable to accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.
DMER030035	0x05030035	The MU number is other than 0 to 2. Make sure of the specified MU number.
DMER030036	0x05030036	The MU number is other than 0 to 2. Make sure of the specified MU number.
DMER030037	0x05030037	The MU number is other than 0. Make sure of the specified MU number.
DMER030038	0x05030038	The V-VOL is a volume of Remote Replication and in a status other than Simplex. Check the status of the Remote Replication pair.
DMER030039	0x05030039	The P-VOL of SnapShot is a P-VOL of Remote Replication. It is in the Split status and prohibited from accepting Write instructions. Check the pair status and pair attribute.
DMER03003A	0x0503003A	The P-VOL of SnapShot is an S-VOL of Remote Replication. It is in the Split status and prohibited from accepting Write instructions. Check the pair status and pair attribute.
DMER03003B	0x0503003B	The P-VOL of SnapShot is a volume of Remote Replication and it is in a status other than Simplex and Split. Check the status of the Remote Replication pair.
DMER03003C	0x0503003C	Among the other V-VOLs of SnapShot, there are LUs of Remote Replication in a status other than Split and Failure. Check the status of the Remote Replication pair.
DMER03003D	0x0503003D	The V-VOL is a volume of Remote Replication and in a status other than Split and Failure. Check the status of the Remote Replication pair.
DMER03003E	0x0503003E	The V-VOL is a volume of Remote Replication and in a status other than Simplex. Check the status of the Remote Replication pair.
DMER030044	0x05030044	The DM-LU is not set. Retry after setting the DM-LU.
DMER030045	0x05030045	The DM-LU was specified as P-VOL. Check the status of the LU.
DMER030046	0x05030046	The DM-LU was specified as V-VOL. Check the status of the LU.
DMER030047	0x05030047	The DM-LU is not set. Retry after setting the DM-LU.
DMER030048	0x05030048	The DM-LU was specified as P-VOL. Check the status of the LU.
DMER030049	0x05030049	The DM-LU was specified as V-VOL. Check the status of the LU.
DMER03004A	0x0503004A	Validity of the license expired. Purchase the license.
DMER03004B	0x0503004B	Validity of the license expired. Purchase the license.
DMER030052	0x05030052	The specified P-VOL is a P-VOL of Remote Replication and the status of the Remote Replication pair is other than Split (at the time of restoration). Check the status of the LU.
DMER030053	0x05030053	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and writing to the S-VOL is prohibited (at the time of restoration). Check the status of the LU.
DMER030054	0x05030054	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Busy (at the time of restoration). Check the status of the LU.
DMER030056	0x05030056	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited (at the time of restoration). Check the status of the LU.
DMER030057	0x05030057	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is other than Simplex or Split (at the time of restoration). Check the status of the LU.
DMER030058	0x05030058	The P-VOL of this SnapShot is the S-VOL of the Remote Replication pair. It cannot be executed because the status of this Remote Replication pair is Synchronizing or Paired. Check the status of the LU.
DMER030059	0x05030059	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited. Check the status of the LU.
DMER03005A	0x0503005A	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Synchronizing or Paired. Check the status of the LU.
DMER03005B	0x0503005B	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited. Check the status of the LU.

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Message code	Error code	Message text/Recovery methods
DMER03005C	0x0503005C	The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Pool Full (at the time of restoration). Check the status of the LU.
DMER03005D	0x0503005D	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER03005E	0x0503005E	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER03005F	0x0503005F	Though the specified P-VOL requires a change of an ownership of LU, it has the pinned data. Contact the service personnel.
DMER030060	0x05030060	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		Though the specified P-VOL requires a change of an ownership of LU, the segments are insufficient. Check the status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The controller that controls the LU that will be P-VOL cannot be changed. Check the status of the LU.
DMER030061	0x05030061	The operation to change LU is in progress. Retry after waiting for a while.
DMER030062	0x05030062	There is no partition to which the current partition to be changed. Retry after waiting for a while.
DMER030063	0x05030063	Though the specified P-VOL requires a change of an ownership of LU, the directory structure is being changed. Check the status of the LU.
DMER030064	0x05030064	Though the specified P-VOL requires a change of an ownership of LU, a time-out occurred in the ownership of LU changed. Check the status of the LU.
DMER030065	0x05030065	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down (at the time of restoration). Check the status of the RAID group.
DMER030066	0x05030066	The specified POOL ID is beyond the limits of supported. Check the specified POOL ID.
DMER030067	0x05030067	There is no POOL LU at the specified POOL ID. Check the specified POOL ID.
DMER030068	0x05030068	The specified P-VOL is already paired with one or more V-VOLs, and the specified POOL ID is different from the POOL ID, which is already assigned. Check the specified POOL ID.
DMER030069	0x05030069	The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.
DMER03006A	0x0503006A	The V-VOL has already created the maximum number of pairs for the specified P-VOL. Check the number of V-VOLs which have paired with the P-VOL.
DMER03006B	0x0503006B	The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.
DMER03006C	0x0503006C	The specified P-VOL is a Volume Migration pair. Check the status of the LU.
DMER03006D	0x0503006D	The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.
DMER03006E	0x0503006E	The specified P-VOL has been defined to the command device. Check the attribute of the LU.
DMER03006F	0x0503006F	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of SnapShot pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER030070	0x05030070	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The process is in progress. Retry after waiting for a while.
DMER030071	0x05030071	It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete the unnecessary pairs.
DMER030072	0x05030072	The specified P-VOL is a MainLU of a unified LU, which includes an LU with a capacity smaller than 1 GB. Check the status of the LU.
DMER030073	0x05030073	The specified P-VOL has been set to the current Cache Residency LU. Check the status of the LU.
DMER030074	0x05030074	The specified P-VOL has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER030075	0x05030075	The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved to other directory. Check the status of the LU.
DMER030076	0x05030076	Differential bit map is insufficient. Delete the unnecessary pairs.

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Message code	Error code	Message text/Recovery methods
DMER030077	0x05030077	When the specified P-VOL is a Remote Replication pair, the specified pool ID and the used pool ID are not the same. Check the specified pool ID.
DMER030078	0x05030078	LU capacities of the P-VOL and V-VOL are different. Check the capacity of the LU.
DMER030079	0x05030079	The specified V-VOL is an S-VOL of a Remote Replication pair.
DMER03007A	0x0503007A	Among the other V-VOLs of SnapShot, there are S-VOLs of Remote Replication. Check the status of the Remote Replication pair.
DMER03007B	0x0503007B	An unsupported command option was received. Check the specified value.
DMER03007C	0x0503007C	The specified POOL ID is beyond the limits of supported. Check the specified POOL ID.
DMER03007D	0x0503007D	There is no POOL LU at the specified POOL ID. Check the specified POOL ID.
DMER03007E	0x0503007E	An instruction to create a pair was issued to a P-VOL, which has one or more pairs, specifying a POOL ID different from that has been assigned. Check the specified POOL ID.
DMER03007F	0x0503007F	The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.
DMER030080	0x05030080	The V-VOL has already created the maximum number of pairs for the specified P-VOL. Check the number of V-VOLs which have paired with the P-VOL.
DMER030081	0x05030081	The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.
DMER030082	0x05030082	The specified P-VOL is a Volume Migration pair. Check the RAID level of the specified LU.
DMER030083	0x05030083	The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.
DMER030084	0x05030084	The specified P-VOL has been defined to the command device. Check the attribute of the LU.
DMER030085	0x05030085	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of SnapShot pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER030086	0x05030086	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The process is in progress. Retry after waiting for a while.
DMER030087	0x05030087	It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete the unnecessary pairs.
DMER030088	0x05030088	The specified P-VOL is a MainLU of a unified LU, which includes an LU with a capacity smaller than 1 GB. Check the status of the LU.
DMER030089	0x05030089	The specified P-VOL has been set to the current Cache Residency LU. Check the status of the LU.
DMER03008A	0x0503008A	The specified P-VOL has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER03008B	0x0503008B	The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved to other directory. Check the status of the LU.
DMER03008C	0x0503008C	Differential bit map is insufficient. Delete the unnecessary pairs.
DMER03008D	0x0503008D	When the specified P-VOL is a Remote Replication pair, the specified pool ID and the used pool ID are not the same. Check the specified pool ID.
DMER03008E	0x0503008E	LU capacities of the P-VOL and V-VOL are different. Check the capacity of the LU.
DMER03008F	0x0503008F	When creating a pair specifying a group ID, the specified group ID is already used for a ShadowImage pair. Check the specified group ID.
DMER030090	0x05030090	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER030091	0x05030091	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER030092	0x05030092	The P-VOL is in a status other than normal or regressive. Check the status of the LU.
DMER030093	0x05030093	The used data POOL LU is in the status other than normal or regressive. Check the status of the LU.
DMER030094	0x05030094	The Migration status is other than unexecuted. Check the Migration status.
DMER030095	0x05030095	The Migration status is other than unexecuted. Check the Migration status.
DMER030096	0x05030096	The Migration status is other than unexecuted. Check the Migration status.

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Message code	Error code	Message text/Recovery methods
DMER030097	0x05030097	The Migration status is other than unexecuted. Check the Migration status.
DMER030098	0x05030098	The Migration status is other than unexecuted. Check the Migration status.
DMER030099	0x05030099	There exist maximum number of pairs already. Delete the unnecessary pairs.
DMER03009A	0x0503009A	There exist maximum number of pairs already. Delete the unnecessary pairs.
DMER03009B	0x0503009B	The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.
DMER03009C	0x0503009C	The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER03009D	0x0503009D	The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.
DMER03009E	0x0503009E	A P-VOL that belongs to the RAID group that indicates a status other than Normal is included in the specified group. Retry after the RAID group status becomes Normal.
DMER03009F	0x0503009F	An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs in the specified group. Retry after the RAID group status becomes Normal.
DMER0300A0	0x050300A0	The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER0300A1	0x050300A1	An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is specified when the pair operation or used by specified pair. Retry after the RAID group status becomes Normal.
DMER0300A2	0x050300A2	The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.
DMER0300A3	0x050300A3	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER0300A4	0x050300A4	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER0300A5	0x050300A5	An LU whose DP optimization status is not Normal is included in the pair and its cascade pairs. Check the DP optimization status of the LUs which are included in the pairs.
DMER0300A6	0x050300A6	The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.
DMER0300A7	0x050300A7	The operation can not be performed due to insufficient capacity of the DP Pool for the LUs which belong to data Pool. Check the capacity of the DP Pool.
DMER0300A8	0x050300A8	Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.
DMER0300A9	0x050300A9	The operation can not be performed due to insufficient capacity of the DP Pool for the P-VOL of a pair in the same group. Check the capacity of the DP Pool.
DMER0300AA	0x050300AA	The operation can not be performed due to insufficient capacity of the DP Pool for the LU specified for data pool of a pair in the same group. Check the capacity of the DP Pool.
DMER0300AB	0x050300AB	The V-VOL of the specified pair is the P-VOL of a remote replication pair. Retry after deleting the remote replication pair.
DMER0300AC	0x050300AC	Access attribute has been set to the V-VOL of the specified SnapShot pair. Change the attribute to Read/Write and reset S-VOL Disable. If mode is set, reset it using Command Control Interface. Then, delete the pair.
DMER0300AD	0x050300AD	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0300AE	0x050300AE	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0300AF	0x050300AF	The Full Capacity Mode differs between the P-VOL and data pools. Set the same value for both the Full Capacity Mode of P-VOL and data pools.
DMER0300B0	0x050300B0	The Full Capacity Mode differs between the P-VOL and data pools. Set the same value for both the Full Capacity Mode of P-VOL and data pools.
DMER0300B1	0x050300B1	The status of the ShadowImage pair cascading with the specified SnapShot pair is illegal. Check the status of the ShadowImage pair.
DMER0300B2	0x050300B2	The status of a ShadowImage pair cascading with the specified SnapShot pair is Failure where the ShadowImage pair can not accept Read/Write instructions. Check the pair status.
DMER0300B3	0x050300B3	The LU ownership of the specified P-VOL is different than the one of the specified data pool. Specify another data pool or check the LU ownership.

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Message code	Error code	Message text/Recovery methods
DMER0300B4	0x050300B4	There is a ShadowImage pair in the specified group cascading with another pair. Check the status of the ShadowImage pair.
DMER0300B5	0x050300B5	The specified MU# is illegal. Check the MU#.
DMER0300EF	0x050300EF	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER0300F0	0x050300F0	The micro program internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER0300FA	0x050300FA	The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.
DMER0300FB	0x050300FB	The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER031000	0x05031000	The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.
DMER031001	0x05031001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.
DMER031002	0x05031002	The operation to change LU is in progress. Retry after waiting for a while.
DMER031003	0x05031003	There is no partition to which the current partition is to be changed. Retry after waiting for a while.
DMER031004	0x05031004	The directory configuration is being changed. Reboot the subsystem.
DMER031005	0x05031005	The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.
DMER031090	0x05031090	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER031091	0x05031091	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER03109B	0x0503109B	The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.
DMER03109C	0x0503109C	The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER032000	0x05032000	The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.
DMER032001	0x05032001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.
DMER032002	0x05032002	The operation to change LU is in progress. Retry after waiting for a while.
DMER032003	0x05032003	There is no partition to which the current partition is to be changed. Retry after waiting for a while.
DMER032004	0x05032004	The directory configuration is being changed. Reboot the subsystem.
DMER032005	0x05032005	The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.
DMER032090	0x05032090	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER032091	0x05032091	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER03209B	0x0503209B	The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.

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Message code	Error code	Message text/Recovery methods
DMER050001	0x05050001	The P-VOL is being quick formatted. Retry after the quick formatting is completed.
DMER050002	0x05050002	The P-VOL or S-VOL (including the unified LU(s)) is being quick formatted. Retry after the quick formatting is completed.
DMER050003	0x05050003	The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.
DMER050004	0x05050004	The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.
DMER050005	0x05050005	The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.
DMER060001	0x05060001	The S-VOL is in the S-VOL Disable mode. Cancel the access attribute.
DMER060002	0x05060002	The P-VOL is in the S-VOL Disable mode (at the time of restoration). Check the attribute of the LU.
DMER060003	0x05060003	The S-VOL Disable is specified for the P-VOL (at the time of a restoration only). Cancel the access attribute.
DMER060004	0x05060004	The S-VOL Disable is specified for the S-VOL. Cancel the access attribute.
DMER060005	0x05060005	Resynchronization is directed to the ShadowImage pair whose S-VOL is specified as S-VOL Disable. Check the pair attribute of the LU.
DMER060006	0x05060006	The S-VOL Disable is specified for the S-VOL (at the time of a restoration only). Check the pair attribute of the LU.
DMER070001	0x05070001	The P-VOL or S-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER070002	0x05070002	The P-VOL is undergoing the forced restoration by means of parity (at the time of restoration). Retry after the restoration by means of parity is completed.
DMER070003	0x05070003	The S-VOL is undergoing the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER070011	0x05070011	The P-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER070012	0x05070012	The P-VOL is undergoing the forced restoration by means of parity. Retry after the restoration by means of parity is completed.
DMER070021	0x05070021	The P-VOL or data pool LU has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER070022	0x05070022	The P-VOL is undergoing the forced restoration by means of parity (at the time of a restoration). Retry after parity correction is completed.
DMER070023	0x05070023	The data pool LU is undergoing the forced restoration by means of parity. Retry after the restoration by means of parity is completed.
DMER080001	0x05080001	More LUs than supportable ones were specified for LUNs of the P-VOL. Make sure of the number of the specified paired LU.
DMER080002	0x05080002	More LUs than supportable ones were specified for LUNs of the S-VOL. Make sure of the number of the specified paired LU.
DMER080003	0x05080003	The P-VOL is in the status other than normal and regressive. Check the status of the LU.
DMER080004	0x05080004	The S-VOL is in the status other than normal and regressive. Check the status of the LU.
DMER080005	0x05080005	The primary sequence number is different from the own Array ID. Check the Array ID.
DMER080006	0x05080006	The secondary sequence number is different from the own Array ID. Check the Array ID.
DMER080007	0x05080007	The primary port number is not supported. Check the specified port number.
DMER080008	0x05080008	The secondary port number is not supported. Check the specified port number.
DMER080009	0x05080009	The P-VOL is a volume of ShadowImage and in the status other than Simplex. Check the pair status of the LU.
DMER08000A	0x0508000A	The S-VOL is a volume of ShadowImage and in the status other than Simplex. Check the pair status of the LU.
DMER08000B	0x0508000B	The P-VOL is a Sub LU of a unified LU. Check the status of the LU.
DMER08000C	0x0508000C	The S-VOL is a Sub LU of a unified LU. Check the status of the LU.
DMER08000E	0x0508000E	The P-VOL is a Cache Residency LU. Check the status of the LU.
DMER08000F	0x0508000F	The S-VOL is a Cache Residency LU. Check the status of the LU.
DMER080010	0x05080010	The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.
DMER080011	0x05080011	The S-VOL is reserved as a Cache Residency LU. Check the status of the LU.
DMER080012	0x05080012	The P-VOL is a command device. Check the status of the LU.
DMER080013	0x05080013	The S-VOL is a command device. Check the status of the LU.

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Message code	Error code	Message text/Recovery methods
DMER080014	0x05080014	The LUNs of the P-VOL and S-VOL are the same. Check the specified LU.
DMER080016	0x05080016	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		The S-VOL is a volume of ShadowImage and in the pair status other than Split and Failure. Check the pair status.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.
		The specified pair is in a status other than Split, Split Pending and Failure. Check the pair status.
DMER080017	0x05080017	The LU to be paired with the P-VOL is not an S-VOL. Check the specified LU.
DMER080018	0x05080018	The LUN of the P-VOL is higher than 512 (1,023). Make sure of the number of the specified paired LU.
DMER080019	0x05080019	The LUN of the S-VOL is higher than 512 (1,023). Make sure of the number of the specified paired LU.
DMER08001A	0x0508001A	The primary sequence number is different from the own Array ID. Check the Array ID.
DMER08001B	0x0508001B	The secondary sequence number is different from the own Array ID. Check the Array ID.
DMER08001C	0x0508001C	The primary port number is not supported. Check the specified port number.
DMER08001D	0x0508001D	The secondary port number is not supported. Check the specified port number.
DMER08001F	0x0508001F	The S-VOL is a volume of ShadowImage and in the pair status of Simplex or Failure. Check the pair status of the LU.
DMER080020	0x05080020	The LU to be paired with the P-VOL is not an S-VOL. Check the specified LU.
DMER080021	0x05080021	The status of the P-VOL is other than normal and regressive. Check the status of the LU.
DMER080022	0x05080022	The status of the S-VOL is other than normal and regressive. Check the status of the LU.
DMER080023	0x05080023	The P-VOL is a Sub LU of a unified LU. Check the status of the LU.
DMER080024	0x05080024	The S-VOL is a Sub LU of a unified LU. Check the status of the LU.
DMER080026	0x05080026	The P-VOL has been set to the current Cache Residency LU. Check the status of the LU.
DMER080027	0x05080027	The S-VOL has been set to the current Cache Residency LU. Check the status of the LU.
DMER080028	0x05080028	The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.
DMER080029	0x05080029	The S-VOL is reserved as a Cache Residency LU. Check the status of the LU.
DMER08002A	0x0508002A	The P-VOL is defined as a command device. Check the status of the LU.
DMER08002B	0x0508002B	The S-VOL is defined as a command device. Check the status of the LU.
DMER08002C	0x0508002C	The LUNs of the P-VOL and S-VOL are the same. Check the specified LU.
DMER08002D	0x0508002D	The number of the LU to be paired is different. Check the specified LUN.
DMER08002E	0x0508002E	The number of the LU to be paired is different. Check the specified LUN.
DMER08002F	0x0508002F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		The pair status of the P-VOL/S-VOL is other than Simplex, Paired, and Synchronizing. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.
		The pair status of the P-VOL/S-VOL is other than Simplex, Paired, Paired Internally Synchronizing and Synchronizing. Check the pair status of the LU.
DMER080030	0x05080030	The LUN of the P-VOL is beyond the limits of support. Check the specified LUN.
DMER080031	0x05080031	The LUN of the S-VOL is beyond the limits of support. Check the specified LUN.
DMER080032	0x05080032	The pair attribute of the LU specified for a P-VOL is not a P-VOL. Check the specified LUN.
DMER080033	0x05080033	The number of the LU to be paired is different. Check the specified LUN.
DMER080034	0x05080034	The primary sequence number is different from the Array ID. Check the specified primary sequence number.
DMER080035	0x05080035	The secondary sequence number is different from the Array ID. Check the specified secondary sequence number.
DMER080036	0x05080036	The primary port number is beyond the limits of support. Check the specified primary port number.
DMER080037	0x05080037	The secondary port number is beyond the limits of support. Check the specified secondary port number.
DMER080038	0x05080038	A pair in the Failure (S-VOL Switch) status received an instruction to restore. Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.
DMER080039	0x05080039	The specified pair is in the Failure (S-VOL Switch) status. Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement and then resynchronize them.

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Message code	Error code	Message text/Recovery methods
DMER08003A	0x0508003A	The pair in the Failure (S-VOL Switch) status is undergoing resynchronization. Wait until the resynchronization is completed.
DMER08003B	0x0508003B	The pair in the Failure (S-VOL Switch) status is undergoing resynchronization. Wait until the resynchronization is completed.
DMER08003C	0x0508003C	The group ID is out of appropriate range. Make sure of the specified group ID number.
DMER08003D	0x0508003D	The number of pairs having the same group ID exceeded 32. Make sure of the specified group ID number.
DMER08003E	0x0508003E	The specified P-VOL/S-VOL is not specified to be grouped(Group ID suspension). Check the pair status of the LU.
DMER08003F	0x0508003F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		The P-VOL/S-VOL, which is the object of the batch suspension, is in a status other than Paired(Group ID suspension). Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.
		A pair that is in a status other than Paired or Paired Internally Synchronizing is included in the specified group. Check the pair status of LU in the group.
DMER080046	0x05080046	The DM-LU is not set. Retry after setting the DM-LU.
DMER080047	0x05080047	The DM-LU was specified as P-VOL. Check the status of the LU.
DMER080048	0x05080048	The DM-LU was specified as S-VOL. Check the status of the LU.
DMER08004B	0x0508004B	The DM-LU is not set. Retry after setting the DM-LU.
DMER08004C	0x0508004C	The DM-LU was specified as P-VOL. Check the status of the LU.
DMER08004D	0x0508004D	The DM-LU was specified as S-VOL. Check the status of the LU.
DMER08004E	0x0508004E	Validity of the license expired. Purchase the license.
DMER08004F	0x0508004F	Validity of the license expired. Purchase the license.
DMER080050	0x05080050	An LU, for which a change of the cache partition(s) had been reserved, was specified as a P-VOL. Check the status of the LU.
DMER080051	0x05080051	An LU, for which a change of the cache partition(s) had been reserved, was specified as an S-VOL. Check the status of the LU.
DMER080052	0x05080052	An LU, for which a change of the cache partition(s) had been reserved, was specified as a P-VOL. Check the status of the LU.
DMER080053	0x05080053	An LU, for which a change of the cache partition(s) had been reserved, was specified as an S-VOL. Check the status of the LU.
DMER08005E	0x0508005E	The specified P-VOL is a Remote Replication pair. Check the status of the LU.
DMER08005F	0x0508005F	The specified S-VOL is a Remote Replication pair. Check the status of the LU.
DMER080060	0x05080060	The specified P-VOL is a Remote Replication pair. Check the status of the LU.
DMER080061	0x05080061	The specified S-VOL is a Remote Replication pair. Check the status of the LU.
DMER080064	0x05080064	The specified MU# is used within the specified P-VOL. Check the specified MU number.
DMER080065	0x05080065	One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER080066	0x05080066	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		One or more volumes of special Failure are under the specified P-VOL. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		One or more volumes of Failure(S-VOL Switch) are under the specified P-VOL. Check the pair status of the LU.
DMER080067	0x05080067	One or more Failure pairs that are not readable/writable (Failure transition due to a failure during restoration) under the specified P-VOL. Check the pair status of the LU.
DMER080068	0x05080068	The group ID overlaps within the specified P-VOL at the time of creating the pair of which the group is specified. Make sure of the specified group ID number.
DMER080069	0x05080069	The pair attribute of the specified P-VOL is not a P-VOL or the pair attribute of the specified S-VOL is not an S-VOL. Check the pair attribute of the LU.
DMER08006A	0x0508006A	The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.

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Message code	Error code	Message text/Recovery methods
DMER08006B	0x0508006B	One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER08006C	0x0508006C	One or more Failure pairs that are not readable/writable (Failure transition due to a failure during the restoration) under the specified P-VOL. Check the pair status of the LU.
DMER08006D	0x0508006D	The pair attribute of the specified P-VOL is not a P-VOL or the pair attribute of the specified S-VOL is not an S-VOL. Check the pair attribute of the LU.
DMER08006E	0x0508006E	The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.
DMER08006F	0x0508006F	The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.
DMER080070	0x05080070	The specified MU# is used within the specified P-VOL. Check the specified MU number.
DMER080071	0x05080071	One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER080072	0x05080072	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		One or more volumes of special Failure are under the specified P-VOL. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		One or more volumes of Failure(S-VOL Switch) are under the specified P-VOL. Check the pair status of the LU.
DMER080073	0x05080073	One or more Failure pairs that are not readable/writable (Failure transition due to a failure during the restoration) under the specified P-VOL. Check the pair status of the LU.
DMER080074	0x05080074	The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.
DMER080075	0x05080075	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER080077	0x05080077	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER080078	0x05080078	The specified S-VOL is the reserved LU. Check the status of the LU.
DMER080079	0x05080079	The specified S-VOL is undergoing the migration and its status is Split or Failure. Check the pair status of the LU.
DMER080080	0x05080080	The specified S-VOL is undergoing the migration and its status is Synchronizing or Split. Check the pair status of the LU.
DMER080081	0x05080081	The specified P-VOL is the reserved LU. Check the pair status of the LU.
DMER080082	0x05080082	The specified S-VOL is the reserved LU. Check the pair status of the LU.
DMER080083	0x05080083	The specified S-VOL is undergoing the migration and its status is Synchronizing. Check the pair status of the LU.
DMER080084	0x05080084	The specified volume is undergoing the migration. Check the pair status of the LU.
DMER080085	0x05080085	The specified P-VOL is undergoing the migration. Check the pair status of the LU.
DMER080086	0x05080086	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER080087	0x05080087	The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.
DMER080088	0x05080088	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER080089	0x05080089	The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.
DMER08008A	0x0508008A	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER08008B	0x0508008B	The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.
DMER08008C	0x0508008C	When creating a pair specifying a group ID, the specified group ID is already used for a SnapShot pair. Check the specified group ID.
DMER08008D	0x0508008D	The S-VOL is a volume of Remote Replication and in a status other than Split and Failure. Check the status of the Remote Replication pair.
DMER08008E	0x0508008E	The S-VOL is a volume of another Remote Replication pair. Check the status of the Remote Replication pair.
DMER08008F	0x0508008F	An unsupported command option was received. Check the specified value.

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Message code	Error code	Message text/Recovery methods
DMER080090	0x05080090	The specified P-VOL has been set to a ShadowImage S-VOL. Check the status of the LU.
DMER080091	0x05080091	The specified P-VOL has been set to a ShadowImage S-VOL. Check the status of the LU.
DMER080092	0x05080092	The Migration status is other than unexecuted. Check the Migration status.
DMER080093	0x05080093	The Migration status is other than unexecuted. Check the Migration status.
DMER080094	0x05080094	The Migration status is other than unexecuted. Check the Migration status.
DMER080095	0x05080095	The Migration status is other than unexecuted. Check the Migration status.
DMER080096	0x05080096	The Migration status is other than unexecuted. Check the Migration status.
DMER080097	0x05080097	The Migration status is other than unexecuted. Check the Migration status.
DMER080098	0x05080098	An invalid array ID is received when INQUIRY serial number conversion mode is on in the host group where a command device is mapped. Check the type of the remote array.
DMER080099	0x05080099	An invalid array ID is received when INQUIRY serial number conversion mode is on in the host group where a command device is mapped. Check the type of the remote array.
DMER08009A	0x0508009A	The Migration status is other than unexecuted. Check the Migration status.
DMER08009B	0x0508009B	One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER08009C	0x0508009C	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		The P-VOL or the S-VOL of the specified pair is a volume of another Remote Replication pair. Check the status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		The S-VOL of the specified pair is a part of another Remote Replication pair. Check the status of the Remote Replication pair.
DMER08009D	0x0508009D	One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER08009E	0x0508009E	The specified pair is in the Split Pending status. Retry after the status becomes Split.
DMER08009F	0x0508009F	A pair in the Failure (S-VOL Switch) status received an instruction to resynchronize with Quick mode. Request that service personnel to replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.
DMER0800A0	0x050800A0	One or more Failure pairs that are not readable/writable under the specified P-VOL. Check the pair status of the LU.
DMER0800A1	0x050800A1	The capacity is beyond the limits of support. Split the unnecessary pairs.
DMER0800A2	0x050800A2	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		The P-VOL or the S-VOL of the specified pair has been cascaded with a Remote Replication pair. Check the status of the Remote Replication pair.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		The S-VOL of the specified pair is a part of another Remote Replication pair. Check the status of the Remote Replication pair.
DMER0800A3	0x050800A3	The P-VOL or the S-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER0800A4	0x050800A4	The S-VOL is undergoing the forced restoration by means of parity. Retry after making the restoration by means of parity.
DMER0800A5	0x050800A5	The disk drives that configure a RAID group to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER0800A6	0x050800A6	The disk drives that configure a RAID group to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.
DMER0800A7	0x050800A7	A pair that is in a status other than Paired, Paired Internally Synchronizing or Synchronizing is included in the specified group. Check the pair status of LU in the group.
DMER0800A8	0x050800A8	A pair that shares the P-VOL with another pair that is in Failure status that are not readable/writable is included in the specified group. Check the pair status of LU in the group.
DMER0800A9	0x050800A9	The capacity is beyond the limits of support. Split the unnecessary pairs.

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Message code	Error code	Message text/Recovery methods
DMER0800AA	0x050800AA	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.
		A pair that the P-VOL or the S-VOL has been cascaded with a Remote Replication pair is included in the specified group. Check the status of the Remote Replication pair.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		A pair that the S-VOL has been cascaded with a Remote Replication pair is included in the specified group. Check the status of the Remote Replication pair.
DMER0800AB	0x050800AB	A pair that the P-VOL or the S-VOL has not undergone the forced restoration by means of parity is included in the specified group. Retry after making the restoration by means of parity.
DMER0800AC	0x050800AC	A pair that the S-VOL is undergoing the forced restoration by means of parity is included in the specified group. Retry after making the restoration by means of parity.
DMER0800AD	0x050800AD	A pair that the P-VOL belongs a RAID group configured by the disk drives that have been spun down is in the specified group. Check the status of the RAID group.
DMER0800AE	0x050800AE	A pair that the S-VOL belongs a RAID group configured by the disk drives that have been spun down is in the specified group. Check the status of the RAID group.
DMER0800AF	0x050800AF	One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER0800B0	0x050800B0	The P-VOL or the S-VOL of the specified pair is a volume of another Remote Replication pair. Check the status of the Remote Replication pair.
DMER0800B1	0x050800B1	The specified pair is in the Split Pending status. Check the pair status of the LU.
DMER0800B2	0x050800B2	The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER0800B3	0x050800B3	An LU that belongs to the RAID group that indicates a status other than Normal is included in the specified group. Retry after the RAID group status becomes Normal.
DMER0800B4	0x050800B4	The specified pair is in a status other than Split and Failure. Check the pair status.
DMER0800B5	0x050800B5	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER0800B6	0x050800B6	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER0800B7	0x050800B7	The LU that was specified as S-VOL does not exist. Check the specified LUN.
DMER0800B8	0x050800B8	The LU that was specified as S-VOL does not exist. Check the specified LUN.
DMER0800B9	0x050800B9	DP pool is insufficient. Confirm the capacity of DP pool.
DMER0800BA	0x050800BA	DP pool is insufficient. Confirm the capacity of DP pool.
DMER0800BB	0x050800BB	DP pool is insufficient. Confirm the capacity of DP pool.
DMER0800BC	0x050800BC	DP pool is insufficient. Confirm the capacity of DP pool.
DMER0800BD	0x050800BD	The specified P-VOL is a volume of Remote Replication pair and the specified S-VOL is an LU created in DP pool. Specify an LU other than the LU created in DP pool to S-VOL.
DMER0800BE	0x050800BE	The specified P-VOL is a volume of Remote Replication pair and the specified S-VOL is an LU created in DP pool. Specify an LU other than the LU created in DP pool to S-VOL.
DMER0800BF	0x050800BF	The specified S-VOL is an LU created in DP pool and the specified P-VOL already has a pair whose S-VOL is a part of remote replication pair. Retry after deleting the remote replication pair.
DMER0800C0	0x050800C0	The specified S-VOL is an LU created in DP pool and the specified P-VOL already has a pair whose S-VOL is a part of remote replication pair. Retry after deleting the remote replication pair.
DMER0800C1	0x050800C1	The DP optimization status of the specified P-VOL is not Normal. Check the DP optimization status of the P-VOL.
DMER0800C2	0x050800C2	The DP optimization status of the specified S-VOL is not Normal. Check the DP optimization status of the S-VOL.
DMER0800C3	0x050800C3	The DP optimization status of the specified P-VOL is not Normal. Check the DP optimization status of the P-VOL.
DMER0800C4	0x050800C4	The DP optimization status of the specified S-VOL is not Normal. Check the DP optimization status of the S-VOL.
DMER0800C5	0x050800C5	Management information regarding DP is being updated. Retry after waiting for a while.
DMER0800C6	0x050800C6	Management information regarding DP is being updated. Retry after waiting for a while.

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Message code	Error code	Message text/Recovery methods
DMER0800C7	0x050800C7	Management information regarding DP is being updated. Retry after waiting for a while.
DMER0800C8	0x050800C8	Management information regarding DP is being updated. Retry after waiting for a while.
DMER0800C9	0x050800C9	The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.
DMER0800CA	0x050800CA	The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.
DMER0800CB	0x050800CB	The specified S-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.
DMER0800CC	0x050800CC	The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.
DMER0800CD	0x050800CD	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0800CE	0x050800CE	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0800CF	0x050800CF	One or more volumes of Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER0800D0	0x050800D0	Three or more volumes of Paired/Synchronizing/Paired Internally Synchronizing/Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D1	0x050800D1	One or more volumes of Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.
DMER0800D2	0x050800D2	Three or more volumes of Paired/Synchronizing/Paired Internally Synchronizing/Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D3	0x050800D3	Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D4	0x050800D4	Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D5	0x050800D5	Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D6	0x050800D6	Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.
DMER0800D7	0x050800D7	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.
DMER0800D8	0x050800D8	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.
DMER0800D9	0x050800D9	The status of the SnapShot pair cascading with the specified ShadowImage pair is illegal. Check the status of the SnapShot pair.
DMER0800DA	0x050800DA	The status of a SnapShot pair cascading with the specified ShadowImage pair is Failure where the SnapShot pair can not accept Read/Write instructions. Check the pair status.
DMER0800DB	0x050800DB	The specified LU is a V-VOL. Check the LU.
DMER0800DC	0x050800DC	The specified S-VOL is the P-VOL of a SnapShot pair. Check the pair status.
DMER0800DD	0x050800DD	The specified P-VOL already has the maximum number of S-VOLs. Check the number of S-VOL paired with the P-VOL.
DMER0800DE	0x050800DE	Any pair operations can not be performed due to the status of the Remote Replication pair cascading with the S-VOL of the SnapShot pair that shared the P-VOL of the specified ShadowImage pair. Check the status of the Remote Replication pair.

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DMER090001	0x05090001	The specified P-VOL is normal or other than regressed. Check the status of the LU.
DMER090002	0x05090002	The specified P-VOL has been set to the current Cache Residency LU. Check the attribute of the LU.
DMER090003	0x05090003	The specified P-VOL has been set to the reserved Cache Residency LU. Check the attribute of the LU.
DMER090004	0x05090004	The specified P-VOL has been defined to the command device. Check the attribute of the LU.
DMER090005	0x05090005	The accepted sequence number is different from the serial number. Check the serial number.
DMER090006	0x05090006	Both of the two paths are abnormal. Check the status of the path.
DMER090007	0x05090007	The specified P-VOL is a Sub LU of a unified LU. Check the attribute of the LU.
DMER090009	0x05090009	The status of the Remote Replication pair of the specified P-VOL is other than Simplex. Check the pair status of the LU.
DMER09000A	0x0509000A	The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.
DMER09000B	0x0509000B	The specified P-VOL is a SnapShot V-VOL. Check the attribute of the LU.
DMER09000C	0x0509000C	The group ID is beyond the limits (more than 16) of support. Check the group ID.
DMER09000D	0x0509000D	The pair status of the specified P-VOL is other than Split or Failure. Check the pair status of the LU.
DMER09000E	0x0509000E	The specified P-VOL status is normal or other than regressed. Check the status of the LU.
DMER09000F	0x0509000F	The specified S-VOL is not a pair target LUN. Check the LUN of the S-VOL.
DMER090010	0x05090010	The accepted sequence number is different from the serial number. Check the serial number.
DMER090011	0x05090011	Both of the two paths are abnormal. Check the status of the path.
DMER090012	0x05090012	When the unit of pair is specified, the pair status of the specified P-VOL is other than Synchronizing and Paired. Check the pair status of the LU.
DMER090013	0x05090013	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The capacity is beyond the limits of support. Split the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER090014	0x05090014	The accepted sequence number is different from the serial number. Check the serial number.
DMER090015	0x05090015	The process is in progress. Retry after waiting for a while.
DMER090016	0x05090016	When the unit of pair is specified, the specified S-VOL is not a pair target LUN. Check the LUN of the specified S-VOL.
DMER090017	0x05090017	The accepted sequence number is different from the serial number. Check the serial number.
DMER090018	0x05090018	The S-VOL pair cancellation instructions was issued to the P-VOL or pair cancellation instructions was issued to the S-VOL. Check the pair attribute of the LU.
DMER090019	0x05090019	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.
		This operation cannot be executed due to lack of resources. Retry after waiting for a while.
DMER090020	0x05090020	The pool LU is not defined. Define the pool LU and retry.
DMER090021	0x05090021	The specified fence level is STATUS. Make sure of the specified fence level.
DMER090022	0x05090022	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The capacity is beyond the limits of support. Split the unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER090023	0x05090023	The internal pair status of the specified P-VOL is [under pair deletion]. Check the pair status of the LU.
DMER090025	0x05090025	The forced blockade of a P-VOL was accepted. The forced blockade of a P-VOL is not supported.
DMER090026	0x05090026	The type of the side file release is other than ordinary splitting. Check the specified value.
DMER090027	0x05090027	The S-VOL received an instruction. Check the pair attribute of the LU.
DMER090029	0x05090029	The S-VOL received an instruction. Check the pair attribute of the LU.

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Message code	Error code	Message text/Recovery methods
DMER09002A	0x0509002A	The P-VOL received an instruction. Check the pair attribute of the LU.
DMER09002B	0x0509002B	When the unit of pair is specified, the pair status of the specified S-VOL is Simplex or Synchronizing. Check the pair status of the LU.
DMER09002C	0x0509002C	The accepted sequence number is different from the serial number. Check the serial number.
DMER09002D	0x0509002D	The specified MU number is beyond the limits (0 to13) of support. Check the specified MU number.
DMER090030	0x05090030	The S-VOL received an instruction. Check the pair attribute of the LU.
DMER090032	0x05090032	The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.
DMER090036	0x05090036	The specified P-VOL is a SnapShot P-VOL and it is being restored. Check the pair status of the SnapShot.
DMER090037	0x05090037	The specified P-VOL is a SnapShot P-VOL and its status was changed to Failure during restoration. Check the pair status of the SnapShot.
DMER090038	0x05090038	There is no vacancy in the generation bits. Retry after waiting for a while.
DMER090039	0x05090039	There is one or more pair(s) in the status of [under execution of remote SnapShot split] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.
DMER09003A	0x0509003A	There is one or more pair(s) in the status of [under pair splitting] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.
DMER09003C	0x0509003C	There is one or more pair(s) in the status of [under pair deletion] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.
DMER09003D	0x0509003D	The specified P-VOL is a SnapShot P-VOL and it is being restored. Check the pair status of the SnapShot.
DMER09003E	0x0509003E	The specified P-VOL is a SnapShot P-VOL and its status was changed to Failure during restoration. Check the pair status of the SnapShot.
DMER09003F	0x0509003F	There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.
DMER090042	0x05090042	When the unit of pair is specified, the pair status of the specified pair is Split (no reading/writing allowed). Check the pair status.
DMER090044	0x05090044	When the unit of group is specified, there is one or more pair(s) placed in the Split status (no reading/writing allowed) in the group. Check the pair status of each LU in the target group.
DMER090045	0x05090045	When the unit of group is specified, there is no pair that is in the Paired, Split, or Failure status in the group. Check the pair status of each LU in the target group.
DMER090046	0x05090046	When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair splitting]. Check the pair status of the LU. It is required to wait until the process is completed.
DMER090047	0x05090047	The specified P-VOL has the incomplete DDCB. Check the status of the LU.
DMER090048	0x05090048	The specified P-VOL has unwritten data. Contact the service personnel.
DMER090049	0x05090049	When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair deletion]. Check the pair status of the LU. It is required to wait until the process is completed.
DMER09004B	0x0509004B	When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under execution of remote SnapShot split]. Check the pair status of the LU. It is required to wait until the process is completed.
DMER09004C	0x0509004C	When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair splitting] in the group. Check the pair status of each LU in the target group.
DMER09004D	0x0509004D	The DM-LU is not defined. Define the DM-LU.
DMER09004E	0x0509004E	The specified P-VOL has been set to the DM-LU. Check the attribute of the LU.
DMER09004F	0x0509004F	Validity of the license expired. Purchase the license.
DMER090050	0x05090050	When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair deletion] in the group. Check the pair status of each LU in the target group.
DMER090052	0x05090052	When the unit of group is specified, there is one or more pair(s) that is in the status of [under execution of remote SnapShot split] in the group. Check the pair status of each LU in the target group.
DMER090053	0x05090053	When the unit of group is specified, there is no pair, which is in the Synchronizing or Paired status, in the target group. Check the pair status of each LU in the target group.
DMER090054	0x05090054	The pair cancellation instructions was executed for the range that was not supported. Check the specified value.

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Message code	Error code	Message text/Recovery methods
DMER090055	0x05090055	When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair splitting]. Check the pair status of the LU. It is required to wait until the process is completed.
DMER090057	0x05090057	When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under execution of remote SnapShot split]. Check the pair status of the LU. It is required to wait until the process is completed.
DMER090059	0x05090059	When the unit of pair is specified, the internal status of the pair of the specified S-VOL is Busy. Check the pair status of the LU.
DMER09005A	0x0509005A	When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair splitting] in the group. Check the pair status of each LU in the target group.
DMER09005C	0x0509005C	When the unit of group is specified, there is one or more pair(s) that is in the status of [under execution of remote SnapShot split] in the group. Check the pair status of each LU in the target group.
DMER09005E	0x0509005E	When the unit of group is specified, there is one or more pair(s) placed in the Busy status in the group. Check the pair status of each LU in the target group.
DMER090068	0x05090068	There is the S-VOL pair whose direction is not correct in the indicated group. Check the group ID.
DMER090069	0x05090069	The partition to which the LU belongs is being changed to the other directory. Retry after waiting for a while.
DMER09006B	0x0509006B	There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.
DMER09006C	0x0509006C	The subsystem has not been rebooted after the Remote Replication option was unlocked. Reboot the subsystem.
DMER09006D	0x0509006D	The specified P-VOL is a unified LU including an LU with a capacity less than 1 GB. Check the attribute of the LU.
DMER09006E	0x0509006E	The specified P-VOL is the pool LU. Check the attribute of the LU.
DMER09006F	0x0509006F	The pool LU status is normal or other than regressed. Check the status of the pool LU.
DMER090070	0x05090070	The pool LU is undergoing the forced parity correction. Check the status of the pool LU.
DMER090071	0x05090071	It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete unnecessary pairs.
DMER090072	0x05090072	The remote SnapShot split request was accepted. Check the firmware version.
DMER090073	0x05090073	The pair status of the specified S-VOL does not allow you to create a pair. Check the pair status of the specified S-VOL on both local and remote arrays.
DMER090074	0x05090074	The suspension command was accepted with a specification of the unit of pair. The specification of the unit of pair is not supported.
DMER090075	0x05090075	The specified P-VOL is a unified LU whose component LUs include an LU for which the format operation is being performed. Check the attribute of the LU.
DMER090076	0x05090076	The specified P-VOL is being formatted. Check the attribute of the LU.
DMER090077	0x05090077	The state of the forced parity correction for the specified P-VOL is Uncorrected or Uncorrected 2. Check the status of the LU.
DMER090078	0x05090078	The specified P-VOL has not undergone the forced parity correction. Retry it after executing the forced parity correction.
DMER09007B	0x0509007B	There is one or more pair(s) in the status of Split or Failure of [under pair deletion] in the target group. Check the pair status of the LU. It is required to wait until the process is completed.
DMER09007C	0x0509007C	The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.
DMER09007D	0x0509007D	The pool LU status is normal or other than regressed. Check the status of the pool LU.
DMER09007E	0x0509007E	The pool LU is undergoing the forced parity correction. Retry after waiting for a while.
DMER09007F	0x0509007F	There is one or more P-VOL(s), the status of the forced parity correction for which is Uncorrected or Uncorrected 2, in the target group. Check the status of each LU in the target group.

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Message code	Error code	Message text/Recovery methods
DMER090080	0x05090080	There is one or more P-VOL(s), status is normal or other than regressed, in the target group. Check the status of each LU in the target group.
DMER090081	0x05090081	There is one or more Remote Replication P-VOL(s), which is cascaded with a SnapShot P-VOL being restored, in the target group. Check the status of each LU in the target group.
DMER090082	0x05090082	There is one or more Remote Replication P-VOL(s), which is cascaded with a SnapShot P-VOL that was placed in the Failure status during restoration, in the target group. Check the status of each LU in the target group.
DMER090083	0x05090083	There is no pair, which is in the Split or Failure status, in the target group. Check the pair status of each LU in the target group.
DMER090084	0x05090084	When a pair is created in the new group, the cycle time that has been set is less than [30 x number of groups] seconds. Check the cycle time that has been set.
DMER090085	0x05090085	When the unit of pair is specified, the S-VOL of the target pair has not completed the resynchronization after it accepted the resynchronization command. Check the Remote Replication pair status of the remote array.
DMER090086	0x05090086	When the unit of group is specified, there is one or more S-VOL(s), which has not completed the resynchronization after it accepted the resynchronization command, in the target group. Check the Remote Replication pair status of the remote array.
DMER090087	0x05090087	There are one or more pairs in the status of [under pair splitting] or [under pair competing] in the group. Retry after waiting for a while.
DMER090088	0x05090088	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER090089	0x05090089	The specified P-VOL is undergoing the migration. Check the pair status of the LU.
DMER09008A	0x0509008A	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER09008B	0x0509008B	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER09008C	0x0509008C	There are one or more Remote Replication P-VOLs corresponding to a RAID group that belongs to the group concerned and the disk drives that configure the RAID group have been spun down. Check the status of the RAID group.
DMER09008D	0x0509008D	The primary pool ID is beyond the limits of supported. Check the pool ID.
DMER09008E	0x0509008E	The secondary pool ID is beyond the limits of supported. Check the pool ID.
DMER09008F	0x0509008F	The specified pool ID differs from the pool ID in use. Check the pool ID.
DMER090090	0x05090090	Swap pair has been issued to the Remote Replication pair with AMS500 or AMS1000. The swap command is not supported in this configuration.
DMER090091	0x05090091	The Swap operation was received in the P-VOL. Check the pair attribute of the LU.
DMER090092	0x05090092	The Swap operation was received by specifying the pair unit. Please confirm the operation and try again.
DMER090093	0x05090093	The LU whose pair status is not Takeover exists in the target group. Check the pair status of each LU in the target group.
DMER090094	0x05090094	The LU whose pair status is Busy exists in the target group. Check the pair status of each LU in the target group.
DMER090095	0x05090095	The LU whose pair status is Takeover and Delete exists in the target group. Check the pair status of each LU in the target group.
DMER090096	0x05090096	The number of the unused bit numbers is insufficient. Retry after waiting for a while.
DMER090097	0x05090097	The pool LU status is normal or other than regressed. Check the status of the pool LU.
DMER090098	0x05090098	The pool LU is undergoing the forced parity correction. Check the status of the pool LU.
DMER090099	0x05090099	There is one or more S-VOL(s), the status of the forced parity correction for which is Uncorrected or Uncorrected 2, in the target group. Check the status of each LU in the target group.

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Message code	Error code	Message text/Recovery methods
DMER09009A	0x0509009A	There is one or more S-VOL(s), status is normal or other than regressed, in the target group. Check the status of each LU in the target group.
DMER09009B	0x0509009B	There is one or more Remote Replication S-VOL(s), which is cascaded with a SnapShot P-VOL being restored, in the target group. Check the status of each LU in the target group.
DMER09009C	0x0509009C	There is one or more Remote Replication S-VOL(s), which is cascaded with a SnapShot P-VOL that was placed in the Failure status during restoration, in the target group. Check the status of each LU in the target group.
DMER09009D	0x0509009D	There exists an S-VOL of a Remote Replication pair, the RAID group which belongs to is in Power Saving mode. Check the status of LUs in the group.
DMER09009E	0x0509009E	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER09009F	0x0509009F	The specified secondary sequence number does not match with the remote side subsystem serial number. Check the specified command device number.
DMER0900A0	0x050900A0	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER0900A1	0x050900A1	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER0900A2	0x050900A2	The command cannot execute because the Auto Migration is undergoing. Check the Migration status.
DMER0900A3	0x050900A3	The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER0900A4	0x050900A4	An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is specified when the pair operation or used by specified pair. Retry after the RAID group status becomes Normal.
DMER0900A5	0x050900A5	An LU that belongs to the RAID group that indicates a status other than Normal is included in the group to which the specified pair belongs. Retry after the RAID group status becomes Normal.
DMER0900A6	0x050900A6	An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs that belong to the same group as the specified pair. Retry after the RAID group status becomes Normal.
DMER0900A7	0x050900A7	The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.
DMER0900A8	0x050900A8	The LU that was specified as P-VOL does not exist. Check the specified LUN.
DMER0900A9	0x050900A9	Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.
DMER0900AA	0x050900AA	The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.
DMER0900AB	0x050900AB	The operation can not be performed due to insufficient capacity of the DP Pool for the P-VOL of a pair in the same group. Check the capacity of the DP Pool.
DMER0900AC	0x050900AC	The operation can not be performed due to insufficient capacity of the DP Pool for the S-VOL of a pair in the same group. Check the capacity of the DP Pool.
DMER0900AD	0x050900AD	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0900AE	0x050900AE	The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.
DMER0900AF	0x050900AF	The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.

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DMER0A0001	0x050A0001	The Volume Migration optional feature is invalid. Install the Volume Migration optional feature.
DMER0A0002	0x050A0002	The temporary key of the Volume Migration was expired. Purchase the license.
DMER0A0003	0x050A0003	The status of the specified P-VOL is other than normal and regressive. Check the status of the LU.
DMER0A0004	0x050A0004	The status of the specified S-VOL is other than normal and regressive. Check the status of the LU.
DMER0A0005	0x050A0005	The status of the parity correction of the specified P-VOL is Uncorrected or Uncorrected 2. Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.
DMER0A0006	0x050A0006	The status of the parity correction of the specified S-VOL is correcting, waiting correction, Uncorrected, or Uncorrected 2. Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.
DMER0A0007	0x050A0007	The specified P-VOL has created a Volume Migration pair. Check the pair status of the LU.
DMER0A0008	0x050A0008	The specified S-VOL has created a Volume Migration pair. Check the pair status of the LU.
DMER0A0009	0x050A0009	The specified P-VOL has created a ShadowImage pair. Check the pair status of the LU.
DMER0A000A	0x050A000A	The specified S-VOL has created a ShadowImage pair. Check the pair status of the LU.
DMER0A000B	0x050A000B	The specified P-VOL is a command device. Check the status of the LU.
DMER0A000C	0x050A000C	The specified S-VOL is a command device. Check the status of the LU.
DMER0A000D	0x050A000D	The specified P-VOL has created a Remote Replication pair. Check the pair status of the LU.
DMER0A000E	0x050A000E	The specified S-VOL has created a Remote Replication pair. Check the pair status of the LU.
DMER0A000F	0x050A000F	The specified P-VOL has created a Remote Replication pair. Check the pair status of the LU.
DMER0A0010	0x050A0010	The specified S-VOL has created a Remote Replication pair. Check the pair status of the LU.
DMER0A0011	0x050A0011	The P-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER0A0012	0x050A0012	The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER0A0013	0x050A0013	The specified P-VOL has created a SnapShot pair. Check the pair status of the LU.
DMER0A0014	0x050A0014	The specified S-VOL has created a SnapShot pair. Check the pair status of the LU.
DMER0A0015	0x050A0015	The specified P-VOL is the pool LU. Check the pair status of the LU.
DMER0A0016	0x050A0016	The specified S-VOL is the pool LU. Check the pair status of the LU.
DMER0A0017	0x050A0017	The specified P-VOL is being quick formatted. Retry after the quick formatting is completed.
DMER0A0018	0x050A0018	The specified S-VOL is being quick formatted. Retry after the quick formatting is completed.
DMER0A0019	0x050A0019	The specified P-VOL is the DM-LU. Check the status of the LU.
DMER0A001A	0x050A001A	The specified S-VOL is the DM-LU. Check the status of the LU.
DMER0A001B	0x050A001B	The DM-LU is not set. Retry after setting the DM-LU.
DMER0A001C	0x050A001C	The specified P-VOL has unwritten data. Check the status of the LU.
DMER0A001D	0x050A001D	The pair cannot be allocated the differential bit map. Split the unnecessary pairs.
DMER0A001E	0x050A001E	The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.
DMER0A001F	0x050A001F	The specified S-VOL is a SubLU of a unified LU. Check the status of the LU.
DMER0A0020	0x050A0020	The size of the specified P-VOL and the S-VOL are not the same. Specify an LU that the same size.
DMER0A0021	0x050A0021	The DIRs in charge of the specified P-VOL and the S-VOL are not the same. Specify an LU that belongs to the same DIR.
DMER0A0022	0x050A0022	The LUNs of the specified P-VOL and S-VOL are the same. Check the specified LUN.
DMER0A0023	0x050A0023	There exist maximum number of pairs already (included ShadowImage pairs). Split the unnecessary pairs.
DMER0A0024	0x050A0024	The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved. Retry after releasing the reserved status.
DMER0A0025	0x050A0025	The specified S-VOL is the LU, for which a change of the cache partition(s) had been reserved. Retry after releasing the reserved status.
DMER0A0026	0x050A0026	The RAID group of the specified P-VOL and S-VOL are the same. Specify a different RAID group.
DMER0A0027	0x050A0027	The specified P-VOL is the reserved LU. Check the status of the LU.
DMER0A0028	0x050A0028	The specified S-VOL is the reserved LU. Check the status of the LU.
DMER0A0029	0x050A0029	The access level of the specified S-VOL is other than the ordinary one. Check the access revel of the LU.

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DMER0A002C	0x050A002C	The specified MU number is 8 or higher. Make sure of the specified MU number.
DMER0A002D	0x050A002D	The specified primary port number is beyond the limits of support. Check the specified primary port number.
DMER0A002E	0x050A002E	The specified secondary port number is beyond the limits of support. Check the specified secondary port number.
DMER0A002F	0x050A002F	The specified primary sequence number is different from the own serial number. Check the specified primary sequence number.
DMER0A0030	0x050A0030	The specified secondary sequence number is different from the own serial number. Check the specified secondary sequence number.
DMER0A0031	0x050A0031	Hitachi Storage Navigator Modular 2 is less than Ver.7.20. The pair concerned is the one that the instruction to start the migration was issued by Navigator or HiCommand. Check the owner ID of the specified pair. Hitachi Storage Navigator Modular 2 is Ver.7.20 or more. The pair concerned is the one that the instruction to start the migration was issued by Navigator etc. Check the owner ID of the specified pair.
DMER0A0032	0x050A0032	The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.
DMER0A0033	0x050A0033	The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.
DMER0A0034	0x050A0034	The Migration status is [data is being copied], [data copy fails], or [data copy is completed]. Check the Migration status.
DMER0A0035	0x050A0035	The Migration status is [access path is being switched] or [access path switching fails]. Check the Migration status.
DMER0A0036	0x050A0036	The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.

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DMER810001	0x05810001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER810002	0x05810002	The process is in progress. Retry after waiting for a while.
DMER810003	0x05810003	The process is in progress. Retry after waiting for a while.
DMER810004	0x05810004	The process is in progress. Retry after waiting for a while.
DMER81000A	0x0581000A	The remote array is receiving a command. Retry after waiting for a while.
DMER81000F	0x0581000F	The path of the remote array was detached. Check the status of the path.
DMER81002C	0x0581002C	The process is in progress. Retry after waiting for a while.
DMER81002D	0x0581002D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81002E	0x0581002E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81002F	0x0581002F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER810030	0x05810030	The S-VOL is undefined. Check the attribute of the LU.
DMER810031	0x05810031	The WWN of the remote array is illegal. Check the equipment WWN.
DMER810033	0x05810033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER810034	0x05810034	A command error occurred. Retry after waiting for a while.
DMER810035	0x05810035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER810036	0x05810036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.
DMER810037	0x05810037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more, less than 10.00.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER810038	0x05810038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER810039	0x05810039	The process is in progress. Retry after waiting for a while.
DMER81003A	0x0581003A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.

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DMER81003E	0x0581003E	The S-VOL command is receiving a command. Retry after waiting.
DMER810042	0x05810042	The capacity is beyond the limits of support. Eliminate unnecessary pairs of the remote array.
DMER810058	0x05810058	The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.
DMER810060	0x05810060	The path of the local subsystem is abnormal. Check the status of the path.
DMER810061	0x05810061	The path of the local subsystem is abnormal. Check the status of the path.
DMER810062	0x05810062	The path of the local subsystem is abnormal. Check the status of the path.
DMER810063	0x05810063	The path of the local subsystem is abnormal. Check the status of the path.
DMER8100D4	0x058100D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8100D9	0x058100D9	The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER8100E0	0x058100E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8100E5	0x058100E5	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8100E8	0x058100E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8100EF	0x058100EF	The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER8100F3	0x058100F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER811001	0x05811001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER811002	0x05811002	The process is in progress. Retry after waiting for a while.
DMER811003	0x05811003	The process is in progress. Retry after waiting for a while.
DMER811004	0x05811004	The process is in progress. Retry after waiting for a while.
DMER81100A	0x0581100A	The remote array is receiving a command. Retry after waiting for a while.
DMER81100F	0x0581100F	The path of the remote array was detached. Check the status of the path.
DMER81102C	0x0581102C	The process is in progress. Retry after waiting for a while.
DMER81102D	0x0581102D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81102E	0x0581102E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81102F	0x0581102F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER811030	0x05811030	The S-VOL is undefined. Check the attribute of the LU.
DMER811031	0x05811031	The WWN of the remote array is illegal. Check the remote array WWN.
DMER811033	0x05811033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER811034	0x05811034	A command error occurred. Retry after waiting for a while.
DMER811035	0x05811035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER811036	0x05811036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.

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Message code	Error code	Message text/Recovery methods
DMER811037	0x05811037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 10.00.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER811038	0x05811038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER811039	0x05811039	The process is in progress. Retry after waiting for a while.
DMER81103A	0x0581103A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.
DMER81103E	0x0581103E	The S-VOL command is receiving a command. Retry after waiting for a while.
DMER811042	0x05811042	The capacity is beyond the limits of support. Delete unnecessary pairs of the remote array.
DMER811058	0x05811058	The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.
DMER8110D4	0x058110D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8110E0	0x058110E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8110E5	0x058110E5	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8110E8	0x058110E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8110F3	0x058110F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER812001	0x05812001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER812002	0x05812002	The process is in progress. Retry after waiting for a while.
DMER812003	0x05812003	The process is in progress. Retry after waiting for a while.
DMER812004	0x05812004	The process is in progress. Retry after waiting for a while.
DMER81200A	0x0581200A	The remote array is receiving a command. Retry after waiting for a while.
DMER81200F	0x0581200F	The path of the remote array was detached. Check the status of the path.
DMER81202C	0x0581202C	The process is in progress. Retry after waiting for a while.
DMER81202D	0x0581202D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81202E	0x0581202E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81202F	0x0581202F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER812030	0x05812030	The S-VOL is undefined. Check the attribute of the LU.
DMER812031	0x05812031	The WWN of the remote array is illegal. Check the remote array WWN.
DMER812033	0x05812033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER812034	0x05812034	A command error occurred. Retry after waiting for a while.
DMER812035	0x05812035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.

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Message code	Error code	Message text/Recovery methods
DMER812036	0x05812036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.
DMER812037	0x05812037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER812038	0x05812038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER812039	0x05812039	The process is in progress. Retry after waiting for a while.
DMER81203A	0x0581203A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.
DMER81203E	0x0581203E	The S-VOL command is receiving a command. Retry after waiting for a while.
DMER8120D4	0x058120D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8120E0	0x058120E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8120E5	0x058120E5	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8120E8	0x058120E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8120EF	0x058120EF	The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER8120F3	0x058120F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER813001	0x05813001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER813002	0x05813002	The process is in progress. Retry after waiting for a while.
DMER813003	0x05813003	The process is in progress. Retry after waiting for a while.
DMER813004	0x05813004	The process is in progress. Retry after waiting for a while.
DMER81300A	0x0581300A	The remote array is receiving a command. Retry after waiting for a while.
DMER81300F	0x0581300F	The path of the remote array was detached. Check the status of the path.
DMER81301E	0x0581301E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The object LU has been organized into a Remote Replication pair, the RAID group to which the object LU belongs indicates a status other than Normal, or the process of reconfigure memory is in progress. Check the pair status of the LU, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.

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Message code	Error code	Message text/Recovery methods
DMER81302C	0x0581302C	The process is in progress. Retry after waiting for a while.
DMER81302D	0x0581302D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81302E	0x0581302E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81302F	0x0581302F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER813030	0x05813030	The S-VOL is undefined. Check the attribute of the LU.
DMER813031	0x05813031	The WWN of the remote array is illegal. Check the remote array WWN.
DMER813033	0x05813033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER813034	0x05813034	A command error occurred. Retry after waiting for a while.
DMER813035	0x05813035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER813036	0x05813036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.
DMER813037	0x05813037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.
DMER813038	0x05813038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER813039	0x05813039	The process is in progress. Retry after waiting for a while.
DMER81303A	0x0581303A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.
DMER81303E	0x0581303E	The S-VOL command is receiving a command. Retry after waiting for a while.
DMER8130D4	0x058130D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8130D9	0x058130D9	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.
DMER8130DE	0x058130DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.

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Message code	Error code	Message text/Recovery methods
DMER8130E0	0x058130E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8130E2	0x058130E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8130E3	0x058130E3	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8130E5	0x058130E5	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8130E8	0x058130E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8130F2	0x058130F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8130F3	0x058130F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER814001	0x05814001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER814002	0x05814002	The process is in progress. Retry after waiting for a while.
DMER814003	0x05814003	The process is in progress. Retry after waiting for a while.
DMER814004	0x05814004	The process is in progress. Retry after waiting for a while.
DMER81400A	0x0581400A	The remote array is receiving a command. Retry after waiting for a while.
DMER81400F	0x0581400F	The path of the remote array was detached. Check the status of the path.
DMER81401E	0x0581401E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The object LU has been organized into a Remote Replication pair, the RAID group to which the object LU belongs indicates a status other than Normal, or the process of reconfigure memory is in progress. Check the pair status of the LU, the RAID group status, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.
DMER81402C	0x0581402C	The process is in progress. Retry after waiting for a while.
DMER81402D	0x0581402D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81402E	0x0581402E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81402F	0x0581402F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER814030	0x05814030	The S-VOL is undefined. Check the attribute of the LU.
DMER814031	0x05814031	The WWN of the remote array is illegal. Check the remote array WWN.
DMER814033	0x05814033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER814034	0x05814034	A command error occurred. Retry after waiting for a while.
DMER814035	0x05814035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER814036	0x05814036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.

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Message code	Error code	Message text/Recovery methods
DMER814037	0x05814037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.
DMER814038	0x05814038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER814039	0x05814039	The process is in progress. Retry after waiting for a while.
DMER81403A	0x0581403A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.
DMER81403E	0x0581403E	The S-VOL command is receiving a command. Retry after waiting for a while.
DMER8140D4	0x058140D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8140D9	0x058140D9	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.
DMER8140DE	0x058140DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8140E0	0x058140E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8140E2	0x058140E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8140E3	0x058140E3	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8140E5	0x058140E5	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8140E8	0x058140E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8140F2	0x058140F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8140F3	0x058140F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER815001	0x05815001	Both of the two paths of the remote array were detached. Check the status of the path.
DMER815002	0x05815002	The process is in progress. Retry after waiting for a while.
DMER815003	0x05815003	The process is in progress. Retry after waiting for a while.
DMER815004	0x05815004	The process is in progress. Retry after waiting for a while.
DMER81500A	0x0581500A	The remote array is receiving a command. Retry after waiting for a while.
DMER81500F	0x0581500F	The path of the remote array was detached. Check the status of the path.
DMER81502C	0x0581502C	The process is in progress. Retry after waiting for a while.
DMER81502D	0x0581502D	The S-VOL of the remote array is being formatted. Retry after waiting for a while.
DMER81502E	0x0581502E	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81502F	0x0581502F	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.

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Message code	Error code	Message text/Recovery methods
DMER815030	0x05815030	The S-VOL is undefined. Check the attribute of the LU.
DMER815031	0x05815031	The WWN of the remote array is illegal. Check the remote array WWN.
DMER815033	0x05815033	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER815034	0x05815034	A command error occurred. Retry after waiting for a while.
DMER815035	0x05815035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER815036	0x05815036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.
DMER815037	0x05815037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.
		The remote array is busy. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER815038	0x05815038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER815039	0x05815039	The process is in progress. Retry after waiting for a while.
DMER81503A	0x0581503A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The process is in progress. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The remote array is busy. Retry after waiting for a while.
DMER81503E	0x0581503E	The S-VOL command is receiving a command. Retry after waiting for a while.
DMER8150D4	0x058150D4	The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.
DMER8150E0	0x058150E0	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8150E5	0x058150E5	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8150E8	0x058150E8	The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.
DMER8150EF	0x058150EF	The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER8150F3	0x058150F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER816022	0x05816022	The process is in progress. Retry after waiting for a while.
DMER816023	0x05816023	The process is in progress. Retry after waiting for a while.
DMER816024	0x05816024	The process is in progress. Retry after waiting for a while.
DMER816025	0x05816025	The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.
DMER816026	0x05816026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.

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Message code	Error code	Message text/Recovery methods
DMER816027	0x05816027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER816028	0x05816028	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER816029	0x05816029	A command error occurred. Retry after waiting for a while.
DMER81602A	0x0581602A	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
DMER81602B	0x0581602B	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER81602C	0x0581602C	The process is in progress. Retry after waiting for a while.
DMER81602D	0x0581602D	The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.
DMER81602E	0x0581602E	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81602F	0x0581602F	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER816030	0x05816030	The S-VOL is undefined. Check the attribute of the LU.
DMER816031	0x05816031	The WWN of the remote subsystem is illegal. Check the remote subsystem WWN.
DMER816032	0x05816032	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER816033	0x05816033	The remote subsystem is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER816035	0x05816035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The optional feature of Remote Replication in the remote array is locked. Unlock and enable the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER816038	0x05816038	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER816041	0x05816041	The S-VOL of the remote subsystem is doing a duplicate writing. Retry after waiting for a while.
DMER816042	0x05816042	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The capacity is beyond the limits of support. Delete unnecessary pairs of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER816086	0x05816086	The S-VOL of the remote subsystem is specified as a command device. Specify a volume other than a command device of the remote subsystem as the S-VOL.
DMER816087	0x05816087	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The S-VOL of the remote subsystem is executing format. Check the status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The S-VOL of the remote subsystem is executing format. Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER816088	0x05816088	The S-VOL of the remote subsystem is specified as the DM-LU. Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.
DMER816089	0x05816089	The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.

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Message code	Error code	Message text/Recovery methods
DMER81608A	0x0581608A	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.
		The S-VOL in the remote subsystem cannot be allocated the differential bit of Remote Replication. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.7.20 or more, less than 9.30.
		The S-VOL in the remote array cannot allocate the differential bit of remote replication pair because the capacity is beyond the supported limit. Check the status of the remote array. In addition delete unnecessary pairs of the remote array.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The S-VOL in the remote array cannot allocate the differential bit of remote replication pair because the capacity is beyond the supported limit. Check the status of the remote array. In addition delete unnecessary pairs of the remote array. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER81608B	0x0581608B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.
		This operation cannot be executed due to lack of resources within the remote array. Retry after deleting unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER81608C	0x0581608C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.
		This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The process is in progress. Retry after waiting for a while.
DMER81608D	0x0581608D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Check the status of the LU in the remote array.
DMER81608E	0x0581608E	The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.
DMER816091	0x05816091	The Array ID of the S-VOL in the remote subsystem is wrong. Check the Array ID of the remote subsystem.
DMER816094	0x05816094	The RAID level of the S-VOL in the remote array is RAID 0. Set the RAID level other than RAID 0 in the remote array.
DMER816095	0x05816095	The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.
DMER816096	0x05816096	The S-VOL in the remote subsystem is a SnapShot V-VOL. The Remote Replication and SnapShot V-VOLs cannot be cascaded with each other. Check the LU status of the remote subsystem.
DMER816097	0x05816097	The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER81609A	0x0581609A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than Ver.7.00.
		The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.
		The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal or the LU is created in DP pool. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.
DMER81609B	0x0581609B	The S-VOL in the remote subsystem is a unified LU consists of 17 or more LUs. Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.
DMER81609C	0x0581609C	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		The LU capacity of the S-VOL in the remote subsystem is not the same as the P-VOL capacity. Make the LU capacity of the remote subsystem the same as that of the P-VOL.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The LU capacity of the S-VOL in the remote array is not the same as the P-VOL capacity. Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER81609D	0x0581609D	The S-VOL in the remote array is set to a Cache Residency LU. Specify an LU other than a Cache Residency LU of the remote array.
DMER81609E	0x0581609E	An LU with a capacity less than 1 GB is included in the LUs in which the S-VOL is unified in the remote subsystem. Check the status of the unified LU of the remote subsystem.
DMER81609F	0x0581609F	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.
		This operation cannot be executed due to lack of resources within the remote array. Retry after waiting for a while.
DMER8160A0	0x058160A0	The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.
DMER8160A1	0x058160A1	The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.
DMER8160A2	0x058160A2	The LU status of the pool LU in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.
DMER8160A3	0x058160A3	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.
DMER8160A4	0x058160A4	The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
DMER8160A5	0x058160A5	The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER8160A6	0x058160A6	The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.
DMER8160A7	0x058160A7	The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.
DMER8160A8	0x058160A8	The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.
DMER8160A9	0x058160A9	The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER8160AA	0x058160AA	The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.
DMER8160AB	0x058160AB	The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER8160B4	0x058160B4	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160B5	0x058160B5	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160B6	0x058160B6	The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160B7	0x058160B7	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160B8	0x058160B8	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160B9	0x058160B9	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8160BA	0x058160BA	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.
DMER8160BB	0x058160BB	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8160BC	0x058160BC	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8160BD	0x058160BD	The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160BE	0x058160BE	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal. Check the status of the remote subsystem.
DMER8160C0	0x058160C0	The S-VOL in the remote array does not exist on the default owner controller, and its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.
DMER8160C1	0x058160C1	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160C2	0x058160C2	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.
DMER8160C5	0x058160C5	The cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.
DMER8160D2	0x058160D2	The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.
DMER8160DD	0x058160DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.

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Message code	Error code	Message text/Recovery methods
DMER8160E0	0x058160E0	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER8160E5	0x058160E5	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8160EA	0x058160EA	The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.
DMER8160ED	0x058160ED	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8160EF	0x058160EF	The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.
DMER8160F3	0x058160F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8160F6	0x058160F6	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER8160F8	0x058160F8	The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.
DMER817022	0x05817022	The process is in progress. Retry after waiting for a while.
DMER817023	0x05817023	The process is in progress. Retry after waiting for a while.
DMER817024	0x05817024	The process is in progress. Retry after waiting for a while.
DMER817025	0x05817025	The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.
DMER817026	0x05817026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER817027	0x05817027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER817028	0x05817028	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER817029	0x05817029	A command error occurred. Retry after waiting for a while.
DMER81702A	0x0581702A	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.
DMER81702B	0x0581702B	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER81702C	0x0581702C	The process is in progress. Retry after waiting for a while.
DMER81702D	0x0581702D	The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.
DMER81702E	0x0581702E	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER81702F	0x0581702F	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER817030	0x05817030	The S-VOL is undefined. Check the attribute of the LU.
DMER817031	0x05817031	The WWN of the remote subsystem is illegal. Check the remote subsystem WWN.
DMER817032	0x05817032	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER817033	0x05817033	The remote subsystem is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER817035	0x05817035	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.70.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and enable the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is invalid. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER817038	0x05817038	Both of the two paths of the remote subsystem were detached. Check the status of the path.

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Message code	Error code	Message text/Recovery methods
DMER817041	0x05817041	The S-VOL of the remote subsystem is doing a duplicate writing. Retry after waiting for a while.
DMER817042	0x05817042	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The capacity is beyond the limits of support. Delete unnecessary pairs of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER817086	0x05817086	The S-VOL of the remote subsystem is specified as a command device. Specify a volume other than a command device of the remote subsystem as the S-VOL.
DMER817087	0x05817087	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The S-VOL of the remote subsystem is executing format. Check the status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The S-VOL of the remote subsystem is executing format. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER817088	0x05817088	The S-VOL of the remote subsystem is specified as the DM-LU. Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.
DMER817089	0x05817089	The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.
DMER81708A	0x0581708A	The S-VOL in the remote subsystem cannot be allocated the differential bit of Remote Replication. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
DMER81708B	0x0581708B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.
		This operation cannot be executed due to lack of resources within the remote array. Retry after deleting unnecessary pairs.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.
DMER81708C	0x0581708C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.
		This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The process is in progress. Retry after waiting for a while.
DMER81708D	0x0581708D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Check the status of the LU in the remote array.
DMER81708E	0x0581708E	The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER817091	0x05817091	The Array ID of the S-VOL in the remote subsystem is wrong. Check the Array ID of the remote subsystem.
DMER817094	0x05817094	The RAID level of the S-VOL in the remote array is RAID 0. Make the RAID level of the remote array other than RAID 0.
DMER817095	0x05817095	The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.
DMER817096	0x05817096	The S-VOL in the remote subsystem is a SnapShot V-VOL. The Remote Replication and SnapShot V-VOLs cannot be cascaded with each other. Check the LU status of the remote subsystem.
DMER817097	0x05817097	The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.
DMER817098	0x05817098	The S-VOL in the remote array is changing the cache partition. Check the status of the remote array and retry after waiting for a while.
DMER81709A	0x0581709A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than Ver.7.00.
		The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.
		The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal or the LU is created in DP pool. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.
DMER81709B	0x0581709B	The S-VOL in the remote subsystem is a unified LU consists of 17 or more LUs. Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.
DMER81709C	0x0581709C	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		The LU capacity of the S-VOL in the remote subsystem is not the same as the P-VOL capacity. Make the LU capacity of the remote subsystem the same as that of the P-VOL.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The LU capacity of the S-VOL in the remote array is not the same as the P-VOL capacity. Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER81709D	0x0581709D	The S-VOL in the remote array is set to a Cache Residency LU. Specify an LU other than a Cache Residency LU of the remote array.
DMER81709E	0x0581709E	An LU with a capacity less than 1 GB is included in the LUs in which the S-VOL is unified in the remote subsystem. Check the status of the unified LU of the remote subsystem.
DMER81709F	0x0581709F	The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.
DMER8170A0	0x058170A0	The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.
DMER8170A1	0x058170A1	The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.
DMER8170A2	0x058170A2	The LU status of the pool LU in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.
DMER8170A3	0x058170A3	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.
		The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.

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Message code	Error code	Message text/Recovery methods
DMER8170A4	0x058170A4	The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
DMER8170A5	0x058170A5	The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.
DMER8170A6	0x058170A6	The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.
DMER8170A7	0x058170A7	The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.
DMER8170A8	0x058170A8	The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.
DMER8170A9	0x058170A9	The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER8170AA	0x058170AA	The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.
DMER8170AB	0x058170AB	The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER8170B4	0x058170B4	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170B5	0x058170B5	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170B6	0x058170B6	The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170B7	0x058170B7	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170B8	0x058170B8	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170B9	0x058170B9	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8170BA	0x058170BA	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.
DMER8170BB	0x058170BB	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8170BC	0x058170BC	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER8170BD	0x058170BD	The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170BE	0x058170BE	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal. Check the status of the remote subsystem.
DMER8170C0	0x058170C0	The S-VOL in the remote array does not exist on the default owner controller and, at the same time, its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.
DMER8170C1	0x058170C1	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170C2	0x058170C2	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.
DMER8170C5	0x058170C5	The cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER8170D2	0x058170D2	The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.
DMER8170DD	0x058170DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER8170E0	0x058170E0	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER8170E5	0x058170E5	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8170EA	0x058170EA	The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.
DMER8170ED	0x058170ED	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8170F3	0x058170F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8170F6	0x058170F6	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER8170F8	0x058170F8	The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.
DMER819022	0x05819022	The process is in progress. Retry after waiting for a while.
DMER819023	0x05819023	The process is in progress. Retry after waiting for a while.
DMER819024	0x05819024	The process is in progress. Retry after waiting for a while.
DMER819025	0x05819025	The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.
DMER819026	0x05819026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER819027	0x05819027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER819028	0x05819028	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER819029	0x05819029	A command error occurred. Retry after waiting for a while.
DMER81902A	0x0581902A	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.
DMER81902B	0x0581902B	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER8190DE	0x058190DE	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER81A022	0x0581A022	Now executing. Wait a while and execute again.
DMER81A023	0x0581A023	Now executing. Wait a while and execute again.
DMER81A024	0x0581A024	Now executing. Wait a while and execute again.
DMER81A025	0x0581A025	The S-VOL in the remote subsystem is being formatted now. Wait a while and execute again.
DMER81A026	0x0581A026	The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.
DMER81A027	0x0581A027	The remote subsystem is after the pseudo deliberate shutdown. Wait a while and execute again.
DMER81A028	0x0581A028	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER81A029	0x0581A029	Command error was occurred. Wait a while and execute again.
DMER81A02A	0x0581A02A	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
DMER81A02B	0x0581A02B	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER81A02C	0x0581A02C	Now executing. Wait a while and execute again.
DMER81A02D	0x0581A02D	The S-VOL in the remote subsystem is being formatted now. Wait a while and execute again.
DMER81A02E	0x0581A02E	The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.
DMER81A02F	0x0581A02F	The remote subsystem is undergoing the pseudo deliberate shutdown. Wait a while and execute again.

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Message code	Error code	Message text/Recovery methods
DMER81A030	0x0581A030	The S-VOL is undefined. Check the attribute of the LU.
DMER81A032	0x0581A032	The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.
DMER81A033	0x0581A033	The remote subsystem is undergoing hot replacement of the firmware. Wait a while and execute again.
DMER81A035	0x0581A035	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
DMER81A038	0x0581A038	Both of the two paths of the remote subsystem were detached. Check the status of the path.
DMER81A041	0x0581A041	Now executing. Wait a while and execute again.
DMER81A089	0x0581A089	The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.
DMER81A08B	0x0581A08B	The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
DMER81A08C	0x0581A08C	The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.
DMER81A08D	0x0581A08D	The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the User's Guide.
DMER81A090	0x0581A090	Now executing. Wait a while and execute again.
DMER81A091	0x0581A091	The indicated Array ID is not same as the actual one for remote subsystem. Confirm the Array ID for the remote subsystem.
DMER81A095	0x0581A095	The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A097	0x0581A097	The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.
DMER81A099	0x0581A099	The array can not execute the operation because the target P-VOL of the specified LU does not exist. Delete the pair regarding the P-VOL in the remote array and create a remote replication pair.
DMER81A09A	0x0581A09A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The LU status of the S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.
DMER81A09F	0x0581A09F	The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.
DMER81A0A0	0x0581A0A0	The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.
DMER81A0A1	0x0581A0A1	The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.
DMER81A0A2	0x0581A0A2	The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.
DMER81A0A3	0x0581A0A3	The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.
DMER81A0A4	0x0581A0A4	The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.
DMER81A0A5	0x0581A0A5	The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.
DMER81A0A6	0x0581A0A6	The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.
DMER81A0A7	0x0581A0A7	The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.
DMER81A0A8	0x0581A0A8	The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER81A0A9	0x0581A0A9	The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER81A0AA	0x0581A0AA	The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.
DMER81A0AB	0x0581A0AB	The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.
DMER81A0B4	0x0581A0B4	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0B5	0x0581A0B5	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0B6	0x0581A0B6	The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0B7	0x0581A0B7	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0B8	0x0581A0B8	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0B9	0x0581A0B9	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER81A0BA	0x0581A0BA	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.
DMER81A0BB	0x0581A0BB	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER81A0BC	0x0581A0BC	The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER81A0BD	0x0581A0BD	The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0BE	0x0581A0BE	The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal. Check the status of the remote subsystem.
DMER81A0C1	0x0581A0C1	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0C2	0x0581A0C2	The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.
DMER81A0D2	0x0581A0D2	The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.
DMER81A0D3	0x0581A0D3	The license validity of the remote subsystem is expired. Purchase the license.
DMER81A0DD	0x0581A0DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER81A0E0	0x0581A0E0	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER81A0E5	0x0581A0E5	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER81A0F3	0x0581A0F3	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.

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Message code	Error code	Message text/Recovery methods
DMER820005	0x05820005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER820006	0x05820006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER820007	0x05820007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER820008	0x05820008	The S-VOL is undefined. Check the status of the LU.
DMER820009	0x05820009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82000B	0x0582000B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82000C	0x0582000C	A command error occurred. Retry after waiting for a while.
DMER82000D	0x0582000D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82000E	0x0582000E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER820011	0x05820011	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays or the maximum number of the connected arrays is beyond the limits. Check the pair status of the LU and Array ID or number of the connected arrays.
DMER820012	0x05820012	The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.
DMER820015	0x05820015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than Ver.10.00.
		The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The status of the object P-VOL or S-VOL is other than normal and regression or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
DMER820017	0x05820017	The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.
DMER820019	0x05820019	The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.
DMER82001A	0x0582001A	The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER82001C	0x0582001C	The object LU is a command device. Specify an LU other than a command device.
DMER82001D	0x0582001D	The change of the default owner controller is reserved for the object LU. Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.
DMER82001E	0x0582001E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER820021	0x05820021	The object LU has already been cascaded with a ShadowImage pair. Check the pair status of the LU and check that its pair attribute is P-VOL.

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Message code	Error code	Message text/Recovery methods
DMER820032	0x05820032	The remote array is receiving a command. Retry after waiting.
DMER82003D	0x0582003D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.
DMER82003F	0x0582003F	The LU assigned to a Remote Replication pair has already been paired by ShadowImage. Check the pair status of the LU.
DMER820040	0x05820040	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.
		The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.6.10 or more, less than Ver.8.00.
		The object LU of the remote array is a volume of ShadowImage that status is Reverse Synchronizing/Split Pending/Paired Internally Synchronizing or cannot accept Read/Write instructions. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.
		The S-VOL of the specified pair cannot accept Read/Write instructions or is a part of ShadowImage whose status is Reverse Synchronizing. Check the status of the S-VOL or the pair status of the ShadowImage pair.
DMER820041	0x05820041	The process is in progress. Retrying after waiting.
DMER820045	0x05820045	The stripe size of the object LU of the remote array is other than 64KB. Make the stripe size of the LU of the remote array 64KB.
DMER820046	0x05820046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.
DMER820048	0x05820048	The specified LU is an S-VOL of ShadowImage. Split the ShadowImage pair that comprises an LU of the remote array.
DMER820049	0x05820049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The object LU of the remote array is being formatted. Create the pair again after the formatting is completed.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The object LU of the remote array is being formatted. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER82004A	0x0582004A	The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.
DMER820050	0x05820050	The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status which concerns the forced restoration by means of parity of the LU of the remote array to Restored or Skip.
DMER820053	0x05820053	The number of unified LUs of the remote array is 17 or more. Make the number of unified LUs of the remote array 16 or less.
DMER820054	0x05820054	The V-VOL which is paired with a SnapShot P-VOL of the remote array has already been organized into a Remote Replication pair. Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.
DMER820055	0x05820055	The object LU of the remote array is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.
DMER820058	0x05820058	The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.
DMER820059	0x05820059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license validity of the remote array is expired. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82005A	0x0582005A	The DM-LU is not set of the remote array or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.
DMER82005B	0x0582005B	The specified S-VOL is the pool LU. Check the status of the LU.
DMER82005C	0x0582005C	The specified S-VOL is the NAS LU. Check the status of the LU.

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Message code	Error code	Message text/Recovery methods
DMER8200C6	0x058200C6	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8200C7	0x058200C7	The specified S-VOL is the reserved LU. Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8200CF	0x058200CF	The disk drives that configure a RAID group to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8200D4	0x058200D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8200D9	0x058200D9	The status of the remote array is in an inappropriate condition to create or resynchronize the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.
DMED8200DE	0x058200DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8200E2	0x058200E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8200E3	0x058200E3	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8200E9	0x058200E9	The specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
DMER8200F1	0x058200F1	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8200F2	0x058200F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8200F5	0x058200F5	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER821005	0x05821005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER821006	0x05821006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER821007	0x05821007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER821008	0x05821008	The S-VOL is undefined. Check the status of the LU.
DMER821009	0x05821009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82100B	0x0582100B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82100C	0x0582100C	A command error occurred. Retry after waiting for a while.
DMER82100D	0x0582100D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82100E	0x0582100E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER821011	0x05821011	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays or the maximum number of the connected arrays is beyond the limits. Check the pair status of the LU and Array ID or number of the connected Array.
DMER821012	0x05821012	The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.

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Message code	Error code	Message text/Recovery methods
DMER821015	0x05821015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than Ver.10.00.
		The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP Pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The status of the object P-VOL or S-VOL is other than normal and regression or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
DMER821017	0x05821017	The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.
DMER821019	0x05821019	The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.
DMER82101A	0x0582101A	The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER82101C	0x0582101C	The object LU is a command device. Specify an LU other than a command device.
DMER82101D	0x0582101D	The change of the default owner controller is reserved for the object LU. Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.
DMER82101E	0x0582101E	The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER821021	0x05821021	The object LU has already been cascaded with a ShadowImage pair. Check the pair status of the LU and check that its pair attribute is P-VOL.
DMER821032	0x05821032	The remote array is receiving a command. Retry after waiting for a while.
DMER82103F	0x0582103F	The LU assigned to a Remote Replication pair has already been paired by ShadowImage. Check the pair status of the LU.
DMER821040	0x05821040	The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.
DMER821041	0x05821041	The process is in progress. Retry after waiting for a while.
DMER821045	0x05821045	The stripe size of the object LU of the remote array is other than 64KB. Make the stripe size of the LU of the remote array 64KB.
DMER821046	0x05821046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array in the Simplex status once and then operate the pair.
DMER821048	0x05821048	The specified LU is an S-VOL of ShadowImage. Split the ShadowImage pair that comprises an LU of the remote array.
DMER821049	0x05821049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The object LU of the remote array is being quick formatted. Create the pair again after the quick formatting is completed.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The object LU of the remote array is being quick formatted. Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER82104A	0x0582104A	The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.
DMER821050	0x05821050	The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to Restored or Skip.
DMER821053	0x05821053	The number of unified LUs of the remote array is 17 or more. Make the number of unified LUs of the remote array 16 or less.

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Message code	Error code	Message text/Recovery methods
DMER821054	0x05821054	The V-VOL, which is paired with a SnapShot P-VOL of the remote array has already been organized into a Remote Replication pair. Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.
DMER821055	0x05821055	The object LU of the remote array is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.
DMER821058	0x05821058	The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.
DMER821059	0x05821059	The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82105A	0x0582105A	The DM-LU is not set of the remote array or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.
DMER82105B	0x0582105B	The specified S-VOL is the pool LU. Check the status of the LU.
DMER82105C	0x0582105C	The specified S-VOL is the NAS LU. Check the status of the LU.
DMER8210C6	0x058210C6	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8210C7	0x058210C7	The specified S-VOL is the reserved LU. Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8210CF	0x058210CF	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8210D4	0x058210D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8210DE	0x058210DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8210E2	0x058210E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8210E3	0x058210E3	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8210E9	0x058210E9	The specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.
DMER8210F1	0x058210F1	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8210F2	0x058210F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8210F5	0x058210F5	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER822005	0x05822005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER822006	0x05822006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER822007	0x05822007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER822008	0x05822008	The S-VOL is undefined. Check the status of the LU.
DMER822009	0x05822009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82200B	0x0582200B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82200C	0x0582200C	A command error occurred. Retry after waiting for a while.
DMER82200D	0x0582200D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82200E	0x0582200E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER822011	0x05822011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
DMER822014	0x05822014	The current Array ID differs from the number that was set initially. Check the Array ID.
DMER822015	0x05822015	The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.

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Message code	Error code	Message text/Recovery methods
DMER82201E	0x0582201E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER822020	0x05822020	The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.
DMER822032	0x05822032	The remote array is receiving a command. Retry after waiting for a while.
DMER82203D	0x0582203D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.
DMER822041	0x05822041	The process is in progress. Retry after waiting for a while.
DMER822046	0x05822046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.
DMER82204A	0x0582204A	The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.
DMER822050	0x05822050	The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to Restored or Skip.
DMER822059	0x05822059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license validity of the remote array is expired. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8220CF	0x058220CF	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8220D4	0x058220D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8220D7	0x058220D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.
DMER8220D8	0x058220D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.
DMER8220DE	0x058220DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8220E2	0x058220E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8220E3	0x058220E3	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8220F2	0x058220F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.

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Message code	Error code	Message text/Recovery methods
DMER823005	0x05823005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER823006	0x05823006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER823007	0x05823007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER823008	0x05823008	The S-VOL is undefined. Check the status of the LU.
DMER823009	0x05823009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82300B	0x0582300B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82300C	0x0582300C	A command error occurred. Retry after waiting for a while.
DMER82300D	0x0582300D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82300E	0x0582300E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER823011	0x05823011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
DMER82301E	0x0582301E	The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
DMER823032	0x05823032	The remote array is receiving a command. Retry after waiting for a while.
DMER823041	0x05823041	The process is in progress. Retry after waiting for a while.
DMER823046	0x05823046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.
DMER8230D4	0x058230D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8230D7	0x058230D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20. The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex. Hitachi Storage Navigator Modular 2 is Ver.6.20 or more. The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.
DMER8230D8	0x058230D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20. The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex. Hitachi Storage Navigator Modular 2 is Ver.6.20 or more. The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.
DMER8230D9	0x058230D9	The status of the remote array is in an inappropriate condition to create or resynchronize the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.
DMER824005	0x05824005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER824006	0x05824006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER824007	0x05824007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER824008	0x05824008	The S-VOL is undefined. Check the status of the LU.
DMER824009	0x05824009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82400B	0x0582400B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82400C	0x0582400C	A command error occurred. Retry after waiting for a while.
DMER82400D	0x0582400D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82400E	0x0582400E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER824011	0x05824011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
DMER82401E	0x0582401E	The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.

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Message code	Error code	Message text/Recovery methods
DMER824032	0x05824032	The remote array is receiving a command. Retry after waiting for a while.
DMER824041	0x05824041	The process is in progress. Retry after waiting for a while.
DMER824046	0x05824046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.
DMER8240D4	0x058240D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8240D7	0x058240D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.
DMER8240D8	0x058240D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.
DMER8240D9	0x058240D9	The status the remote array is in an inappropriate condition to create the Remote Replication pair. Confirm the Array ID, pair status of Remote Replication and status of SnapShot and ShadowImage. See the User's Guide for their detail information.
DMER825005	0x05825005	The LU of the remote array is being formatted. Retry after waiting for a while.
DMER825006	0x05825006	The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER825007	0x05825007	The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER825008	0x05825008	The S-VOL is undefined. Check the status of the LU.
DMER825009	0x05825009	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82500B	0x0582500B	The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.
DMER82500C	0x0582500C	A command error occurred. Retry after waiting for a while.
DMER82500D	0x0582500D	The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.
DMER82500E	0x0582500E	The status of the S-VOL cannot be changed. Retry after waiting for a while.
DMER825011	0x05825011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.
DMER825014	0x05825014	The current Array ID differs from the number that was set initially. Check the Array ID.
DMER825015	0x05825015	The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.
DMER82501E	0x0582501E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER825020	0x05825020	The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.
DMER825032	0x05825032	The remote array is receiving a command. Retry after waiting for a while.
DMER82503D	0x0582503D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.

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Message code	Error code	Message text/Recovery methods
DMER825041	0x05825041	The process is in progress. Retry after waiting for a while.
DMER825046	0x05825046	The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.
DMER825047	0x05825047	The specified LU is an S-VOL of ShadowImage. Specify an LU other than a ShadowImage S-VOL that comprises the LU of the remote array.
DMER82504B	0x0582504B	Check the pair status of the LU. Cancel the S-VOL Disable specified for the LU of the remote array (at the time of a swap).
DMER825050	0x05825050	The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status which concerns the forced restoration by means of parity of the LU of the remote array to Restored or Skip.
DMER825056	0x05825056	The target LU of the remote array is a V-VOL of SnapShot (at the time of swap). Specify the LU of the remote array other than a V-VOL of SnapShot.
DMER825059	0x05825059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license validity of the remote array is expired. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8250CF	0x058250CF	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8250D4	0x058250D4	The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.
DMER8250D7	0x058250D7	The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status Split or Simplex.
DMER8250D8	0x058250D8	The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status Split or Simplex.
DMER8250DE	0x058250DE	Auto Migration is being executed in the remote array. Execute again after the Migration is completed.
DMER8250E2	0x058250E2	The remote array is executing Auto Migration. Retry after the Auto Migration is completed.
DMER8250E3	0x058250E3	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8250F2	0x058250F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER826011	0x05826011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote subsystems. Check the pair status of the LU and Array ID.
DMER826012	0x05826012	The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.
DMER826015	0x05826015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.
		The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The status of the object LU is other than normal and regression or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.
DMER826017	0x05826017	The S-VOL resides in the RAID group of RAID 0. Choose a RAID group of RAID level other than RAID 0.
DMER826019	0x05826019	The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.

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Message code	Error code	Message text/Recovery methods
DMER82601A	0x0582601A	The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER82601C	0x0582601C	The object LU is a command device. Specify an LU other than a command device.
DMER82601E	0x0582601E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER826026	0x05826026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER826027	0x05826027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER82602A	0x0582602A	The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
DMER826040	0x05826040	The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.
DMER826045	0x05826045	The stripe size of the object LU of the remote subsystem is other than 64KB. Make the stripe size of the LU of the remote subsystem 64KB.
DMER826046	0x05826046	The object LU of the remote subsystem is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.
DMER826049	0x05826049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER82604A	0x0582604A	The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote subsystem.
DMER826050	0x05826050	The object LU of the remote subsystem has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to Restored or Skip.
DMER826053	0x05826053	The number of unified LUs of the remote subsystem is 17 or more. Make the number of unified LUs of the remote subsystem 16 or less.
DMER826055	0x05826055	The object LU of the remote subsystem is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.
DMER826059	0x05826059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license validity of the remote subsystem is expired. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82605A	0x0582605A	The DM-LU is not set of the remote subsystem or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.
DMER82605B	0x0582605B	The specified S-VOL is the pool LU. Check the status of the LU.
DMER8260B3	0x058260B3	The specified S-VOL is a unified LU including a SubLU with a capacity less than 1 GB. Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.
DMER8260C4	0x058260C4	When a new pair, which is to be (or is) bi-directional, of a group is created, the cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.

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Message code	Error code	Message text/Recovery methods
DMER8260C6	0x058260C6	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8260C7	0x058260C7	The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8260CA	0x058260CA	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8260CB	0x058260CB	The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8260CF	0x058260CF	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8260D1	0x058260D1	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8260D2	0x058260D2	The specified data pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.
DMER8260DB	0x058260DB	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER8260DD	0x058260DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER8260DE	0x058260DE	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER8260E1	0x058260E1	The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.
DMER8260E3	0x058260E3	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8260E9	0x058260E9	The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.
DMER8260F1	0x058260F1	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8260F2	0x058260F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8260F5	0x058260F5	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER827011	0x05827011	The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote subsystems. Check the pair status of the LU and Array ID.
DMER827012	0x05827012	The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.
DMER827015	0x05827015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.
		The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.
		Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.
		The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.
		Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.
		The status of the object LU is other than normal and regression or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.
DMER827017	0x05827017	The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.
DMER827019	0x05827019	The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.
DMER82701A	0x0582701A	The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.
DMER82701C	0x0582701C	The object LU is a command device. Specify an LU other than a command device.

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Message code	Error code	Message text/Recovery methods
DMER82701E	0x0582701E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER827026	0x05827026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER827027	0x05827027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER82702A	0x0582702A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.
DMER827040	0x05827040	The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.
DMER827045	0x05827045	The stripe size of the object LU of the remote subsystem is other than 64KB. Make the stripe size of the LU of the remote subsystem 64KB.
DMER827046	0x05827046	The object LU of the remote subsystem is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.
DMER827049	0x05827049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.
		The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed.
		Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.
		The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER82704A	0x0582704A	The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote subsystem.
DMER827050	0x05827050	The object LU of the remote subsystem has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to Restored or Skip.
DMER827053	0x05827053	The number of unified LUs of the remote subsystem is 17 or more. Make the number of unified LUs of the remote subsystem 16 or less.
DMER827055	0x05827055	The object LU of the remote subsystem is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.
DMER827059	0x05827059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license validity of the remote subsystem is expired. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82705A	0x0582705A	The DM-LU is not set of the remote subsystem or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.
DMER82705B	0x0582705B	The specified S-VOL is the pool LU. Check the status of the LU.
DMER8270B3	0x058270B3	The specified S-VOL is a unified LU including a SubLU with a capacity less than 1 GB. Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.

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Message code	Error code	Message text/Recovery methods
DMER8270C4	0x058270C4	When a new pair, which is to be (or is) bi-directional, of a group is created, the cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.
DMER8270C6	0x058270C6	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8270C7	0x058270C7	The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8270CA	0x058270CA	The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.
DMER8270CB	0x058270CB	The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.
DMER8270CF	0x058270CF	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8270D1	0x058270D1	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER8270D2	0x058270D2	The specified data pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.
DMER8270DB	0x058270DB	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER8270DD	0x058270DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER8270DE	0x058270DE	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER8270E1	0x058270E1	The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.
DMER8270E3	0x058270E3	The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER8270E9	0x058270E9	The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.
DMER8270F1	0x058270F1	Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.
DMER8270F2	0x058270F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER8270F5	0x058270F5	The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.
DMER82901E	0x0582901E	The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.
DMER829026	0x05829026	The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.
DMER829027	0x05829027	The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.
DMER82902A	0x0582902A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.
		The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.
DMER82903D	0x0582903D	Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.
DMER82905E	0x0582905E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		There is a SnapShot pair, which has an MU number specified for a SnapShot P-VOL, has not been placed in the Paired or Split status, and whose S-VOL is one of the S-VOLs with the specified group numbers. Check the pair status of the SnapShot. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82905F	0x0582905F	There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.

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Message code	Error code	Message text/Recovery methods
DMER8290DE	0x058290DE	Auto Migration is being executed in the remote array just now. Execute again after the Migration is completed.
DMER8290F2	0x058290F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82A011	0x0582A011	The indicated LU is in the Remote Replication pair for another subsystem. Confirm the pair status for the LU and also the Array ID.
DMER82A015	0x0582A015	The status of the object LU is other than normal and regressive. Make the LU status be normal or regressive.
DMER82A01E	0x0582A01E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The indicated LU has already been set as the Remote Replication pair. Confirm the pair status for the LU.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.
DMER82A026	0x0582A026	The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.
DMER82A027	0x0582A027	The remote subsystem is after the pseudo deliberate shutdown. Wait a while and execute again.
DMER82A02A	0x0582A02A	The optional feature of Remote Replication of the remote array is disabled. Unlock and enable the optional feature.
DMER82A02B	0x0582A02B	Both of the two remote paths of the local array were detached. Check the status of the path.
DMER82A030	0x0582A030	The S-VOL is undefined. Check the attribute of the LU.
DMER82A031	0x0582A031	The WWN of the remote array is illegal. Check the equipment WWN.
DMER82A035	0x0582A035	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.
		The optional feature of Remote Replication of the remote array is locked. Unlock and validate the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.70.
		The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82A038	0x0582A038	Both of the two paths of the remote array were detached. Check the status of the path.
DMER82A046	0x0582A046	The indicated LU in the remote subsystem is being restored for SnapShot or can not be executed the Read and Write command for the SnapShot pair. Execute again after having the SnapShot pair status in the remote subsystem be Simplex.
DMER82A04A	0x0582A04A	The S-VOL is 'S-VOL Disable' status. Release the indication for the 'S-VOL Disable' in the remote subsystem.
DMER82A050	0x0582A050	The indicated LU in the remote subsystem is in the forced parity correction, or has not executed the forced parity correction yet. Make the LU status for the forced parity correction in remote subsystem be Restored or Skip.
DMER82A059	0x0582A059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.
		The license of the remote subsystem expires. Purchase the license.
		Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.
		The license of the remote array expires. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.
DMER82A05D	0x0582A05D	Now executing. Wait a while and execute again.
DMER82A089	0x0582A089	The S-VOL of the remote array is in the status of S-VOL Disable. Check the status of the remote array and cancel the access attribute.

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Message code	Error code	Message text/Recovery methods
DMER82A08B	0x0582A08B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The S-VOL in the remote array has no SnapShot cache block available. Check the data pool LU status of the remote array. In addition, delete unnecessary pairs of the remote array.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.
		This operation cannot be executed due to lack of resources within the remote array. Try the operation again after deleting unnecessary pairs.
DMER82A08C	0x0582A08C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.
		The SnapShot cache block for the S-VOL in the remote array is being deleted. Check the data pool LU status of the remote array and retry after waiting for a while.
		Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.
		This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.
DMER82A08D	0x0582A08D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array. See the User's Guide for their detail information.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array.
DMER82A090	0x0582A090	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.
		The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array. See the User's Guide for their detail information.
		Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.
		The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array.
DMER82A091	0x0582A091	The indicated Array ID is not same as the actual one for remote array. Confirm the Array ID for the remote array.
DMER82A095	0x0582A095	The S-VOL in the remote array is undergoing the forced parity correction. Check the status of the remote array and retry after waiting for a while.
DMER82A097	0x0582A097	The S-VOL in the remote array received an illegal command. Check the status of the remote array.
DMER82A09A	0x0582A09A	The LU status of the S-VOL in the remote array is normal or other than regressed. Check the LU status of the remote array.
DMER82A09F	0x0582A09F	Splitting or deleting SnapShot pair is in progress. Retry after waiting for a while.
DMER82A0A0	0x0582A0A0	The remote array has no data pool. Create a data pool in the remote array.
DMER82A0A1	0x0582A0A1	The LU specified as the S-VOL in the remote array is a data pool LU. The data pool LU cannot be set to an S-VOL. Check the data pool LU status of the remote array.
DMER82A0A2	0x0582A0A2	The LU status of the S-VOL in the remote array is normal or other than regressed. Check the pool LU status of the remote array.
DMER82A0A3	0x0582A0A3	The data pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while.
DMER82A0A4	0x0582A0A4	The S-VOL in the remote array exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote array. In addition, delete unnecessary pairs of the remote array.
DMER82A0A5	0x0582A0A5	The Remote Replication pair status of the S-VOL in the remote array is Failure. Check the Remote Replication pair status of the remote array.
DMER82A0A6	0x0582A0A6	The Remote Replication pair status of the S-VOL in the remote array is Pool Full. Check the Remote Replication pair status of the remote array.
DMER82A0A7	0x0582A0A7	The Remote Replication pair status of the S-VOL in the remote array is Split (no read/write allowed). Check the Remote Replication pair status of the remote array.
DMER82A0A8	0x0582A0A8	The Remote Replication pair status of the S-VOL in the remote array is Takeover (including Busy). Check the Remote Replication pair status of the remote array.

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Message code	Error code	Message text/Recovery methods
DMER82A0A9	0x0582A0A9	The Remote Replication pair status of the S-VOL in the remote array is Simplex. Check the Remote Replication pair status of the remote array.
DMER82A0AA	0x0582A0AA	The Remote Replication pair status of the S-VOL in the remote array is Split. Check the Remote Replication pair status of the remote array.
DMER82A0AB	0x0582A0AB	The Remote Replication pair status of the S-VOL in the remote array is not Simplex. Check the Remote Replication pair status of the remote array.
DMER82A0B4	0x0582A0B4	The S-VOL in the remote array does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote array and retry after waiting for a while.
DMER82A0B5	0x0582A0B5	The S-VOL in the remote array does not exist on the default owner controller and at the same time an ownership of LU change for it has been started. Check the status of the remote array and retry after waiting for a while.
DMER82A0B6	0x0582A0B6	The S-VOL in the remote array does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote array and retry after waiting for a while.
DMER82A0B7	0x0582A0B7	The S-VOL in the remote array does not exist on the default owner controller and at the same time an ownership of LU to be changed is blocked. Check the status of the remote array and retry after waiting for a while.
DMER82A0B8	0x0582A0B8	The S-VOL in the remote array cannot change an ownership of LU and at the same time it is using the sequential buffer. Check the status of the remote array and retry after waiting for a while.
DMER82A0B9	0x0582A0B9	The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER82A0BA	0x0582A0BA	The S-VOL in the remote array cannot change an ownership of LU and at the same time it has pinned data. Contact the service personnel.
DMER82A0BB	0x0582A0BB	The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER82A0BC	0x0582A0BC	The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.
DMER82A0BD	0x0582A0BD	The S-VOL in the remote array cannot change an ownership of LU and a time-out occurred. Check the status of the remote array and retry after waiting for a while.
DMER82A0BE	0x0582A0BE	The S-VOL in the remote array cannot change an ownership of LU, and the group number is illegal. Check the status of the remote array.
DMER82A0C0	0x0582A0C0	The S-VOL in the remote array does not exist on the default owner controller, and its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.
DMER82A0C1	0x0582A0C1	The S-VOL in the remote array does not exist on the default owner controller, and the array is performing the system copy. Check the status of the remote array and retry after waiting for a while.
DMER82A0C2	0x0582A0C2	The S-VOL in the remote array does not exist on the default owner controller, and the array is writing the configuration information. Check the status of the remote array and retry after waiting for a while.
DMER82A0D1	0x0582A0D1	The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.
DMER82A0D2	0x0582A0D2	The S-VOL pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.
DMER82A0D3	0x0582A0D3	The license has expired. Purchase the license.
DMER82A0DB	0x0582A0DB	The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.
DMER82A0DD	0x0582A0DD	The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.
DMER82A0DE	0x0582A0DE	Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.
DMER82A0E1	0x0582A0E1	The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.
DMER82A0E3	0x0582A0E3	The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.
DMER82A0F2	0x0582A0F2	The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.

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Message code	Error code	Message text/Recovery methods
DMES000000	0x01000000	Please retry.
DMES010200	0x01010200	Please retry.
DMES010600	0x01010600	Please retry.
DMES010802	0x01010802	Please retry.
DMES010900	0x01010900	Please retry.
DMES011300	0x01011300	Please retry.
DMES011401	0x01011401	Please retry.
DMES011501	0x01011501	Please retry.
DMES011502	0x01011502	Please retry.
DMES011700	0x01011700	Please retry.
DMES011701	0x01011701	Please retry.
DMES011702	0x01011702	Please retry.
DMES011703	0x01011703	Please retry.
DMES011800	0x01011800	Please retry.
DMES011801	0x01011801	Please retry.
DMES011802	0x01011802	Please retry.
DMES011902	0x01011902	Please retry.
DMES011903	0x01011903	Please retry.
DMES013200	0x01013200	Please retry.
DMES013201	0x01013201	Please retry.
DMES015B00	0x01015B00	Please retry.
DMES015B02	0x01015B02	Please retry.
DMES015B03	0x01015B03	Please retry.
DMES018A03	0x01018A03	Please retry.
DMES018A04	0x01018A04	Please retry.
DMES018B01	0x01018B01	Please retry.
DMES019621	0x01019621	A reboot is required to confirm a setup.
DMES019625	0x01019625	The Account Authentication is enabled successfully.
DMES019626	0x01019626	The Account Authentication is disabled successfully.
DMES019627	0x01019627	The Account Authentication is installed successfully.
DMES019628	0x01019628	The Account Authentication is de-installed successfully.
DMES0196F7	0x010196F7	The backup by append write is requested.
DMES01EA05	0x0101EA05	The firmware has been downloaded to the system drives, but some system drives could not be used. The subsystem can be used.
DMES020400	0x01020400	The process cannot be performed because formatting is now occurring, or LU is unformatted. Please confirm the LU status and try again.
DMES020401	0x01020401	Please retry.
DMES020402	0x01020402	Please retry.
DMES020403	0x01020403	The requested operation cannot be executed because the target drives are in spin-down status by Power Saving function. Please retry the operation after spinning-up the drives by Power Saving function.
DMES020404	0x01020404	The process cannot be performed because formatting is now occurring. Retry after formatting completes.
DMES020484	0x01020484	The subsystem is under shutdown process. Retry when the subsystem is in Ready status.
DMES020500	0x01020500	Please retry.
DMES023E00	0x01023E00	Please retry.

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Message code	Error code	Message text/Recovery methods
DMES029500	0x01029500	The process cannot be performed because the subsystem is under shutdown process. Please wait a moment and restart the subsystem, then try again.
DMES029501	0x01029501	Hitachi Storage Navigator Modular 2 is less than Ver.8.50.
		The process cannot be performed because the subsystem is under shutdown. Please restart the subsystem and then try again.
		Hitachi Storage Navigator Modular 2 is Ver.8.50 or more.
		The process cannot be performed because the subsystem is in a shutdown state. Please restart the subsystem and then try again.
DMES02959A	0x0102959A	Please retry.
DMES02959B	0x0102959B	Please retry.
DMES02959C	0x0102959C	The process cannot be performed because the subsystem is executing the Auto Migration. Please confirm the Migration Status and try again.
DMES030C02	0x01030C02	Please retry.
DMES031000	0x01031000	Please retry.
DMES031102	0x01031102	Please retry.
DMES031104	0x01031104	Please retry.
DMES031200	0x01031200	Please retry.
DMES031300	0x01031300	Please retry.
DMES031401	0x01031401	Please retry.
DMES031501	0x01031501	Please retry.
DMES031502	0x01031502	Please retry.
DMES031902	0x01031902	Please retry.
DMES031903	0x01031903	Please retry.
DMES031C01	0x01031C01	Please retry.
DMES031C02	0x01031C02	Please retry.
DMES031D00	0x01031D00	Please retry.
DMES033100	0x01033100	Please retry.
DMES033101	0x01033101	Formatting ended abnormally. Please retry after waiting for a while.
DMES033180	0x01033180	The specified LU is unformatted. Specify a formatted LU and try again.
DMES033181	0x01033181	Please retry.
DMES033201	0x01033201	Please retry.
DMES038E01	0x01038E01	Please retry.
DMES039300	0x01039300	Please retry.
DMES03F000	0x0103F000	Please retry.
DMES03F100	0x0103F100	Please retry.
DMES03F200	0x0104F200	Please retry.
DMES03F300	0x0104F300	Please retry.
DMES040100	0x01040100	Please retry.
DMES040200	0x01040200	Please retry.
DMES040300	0x01040300	Please retry.
DMES040600	0x01040600	Please retry.
DMES040700	0x01040700	Please retry.
DMES040800	0x01040800	Please retry.
DMES040801	0x01040801	Please retry.
DMES040802	0x01040802	Please retry.
DMES040900	0x01040900	Please retry.
DMES041B00	0x01041B00	Please retry.
DMES043200	0x01043200	Please retry.

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Message code	Error code	Message text/Recovery methods
DMES044400	0x01044400	Please retry.
DMES0444A0	0x010444A0	Please retry.
DMES044C00	0x01044C00	Please retry.
DMES048A01	0x01048A01	Please retry.
DMES048A02	0x01048A02	Please retry.
DMES049000	0x01049000	Please retry.
DMES049001	0x01049001	Please retry.
DMES049100	0x01049100	Please retry.
DMES049101	0x01049101	Please retry.
DMES049502	0x01049502	The requested operation cannot be performed. Please confirm there are any alarms or warnings in the subsystem.
DMES049504	0x01049504	The process cannot be performed because Switch Array failed. Please confirm the subsystem status and then try again.
DMES049599	0x01049599	Please retry.
DMES049900	0x01049900	Please retry.
DMES049903	0x01049903	The elimination of PIN data is not completed. Please wait for a while and then try again.
DMES04A000	0x0104A000	Please retry.
DMES04E400	0x0104E400	Please retry.
DMES04EA01	0x0104EA01	Please retry.
DMES04EA02	0x0104EA02	Please retry.
DMES04EA10	0x0104EA10	An error was detected in firmware downgrade check. Please retry by using another firmware.
DMES04EA11	0x0104EA11	The specified firmware could not be installed on to the RKL type because the firmware version is old.
DMES04EB00	0x0104EB00	The information could not be set because the backup floppy disk is not inserted.
DMES04EB01	0x0104EB01	The backup information could not be written on to the FD because the FDD is in use or an error occurred in the FDD on the subsystem.
DMES04EB02	0x0104EB02	An error occurred while writing on to the floppy disk.
DMES04EB03	0x0104EB03	The SCSI ID could not be set online due to other controller blockage.
DMES04F400	0x0104F400	Please retry.
DMES04F610	0x0104F610	Please retry.
DMES04F611	0x0104F611	Please retry.
DMES04F620	0x0104F620	Please retry.
DMES04F621	0x0104F621	Please retry.
DMES04F630	0x0104F630	Please retry.
DMES04F631	0x0104F631	Please retry.
DMES04F640	0x0104F640	Please retry.
DMES04F641	0x0104F641	Please retry.
DMES04F650	0x0104F650	Please retry.
DMES04F651	0x0104F651	Please retry.
DMES04F660	0x0104F660	Please retry.
DMES04F661	0x0104F661	Please retry.
DMES04F670	0x0104F670	Please retry.
DMES04F671	0x0104F671	Please retry.
DMES04F800	0x0104F800	Please retry.
DMES04F801	0x0104F801	Please retry.
DMES04F802	0x0104F802	Please retry.
DMES04F803	0x0104F803	Please retry.
DMES04F804	0x0104F804	Please retry.
DMES04F805	0x0104F805	Please retry.
DMES04F807	0x0104F807	Please retry.

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Message code	Error code	Message text/Recovery methods
DMES04F808	0x0104F808	Please retry.
DMES04F809	0x0104F809	Please retry.
DMES04F8F0	0x0104F8F0	Please retry.
DMES04F900	0x0104F900	Please retry.
DMES04F901	0x0104F901	Please retry.
DMES04F902	0x0104F902	Please retry.
DMES04F903	0x0104F903	Please retry.
DMES04F904	0x0104F904	Please retry.
DMES04F905	0x0104F905	Please retry.
DMES04F906	0x0104F906	Please retry.
DMES04F907	0x0104F907	Please retry.
DMES04F908	0x0104F908	Please retry.
DMES04F909	0x0104F909	Please retry.
DMES04F9F0	0x0104F9F0	Please retry.
DMES050000	0x01050000	Please retry.
DMES051A00	0x01051A00	Please retry.
DMES052000	0x01052000	Please retry.
DMES052100	0x01052100	Please retry.
DMES052400	0x01052400	Please retry.
DMES052500	0x01052500	The process cannot be performed because the LU is undefined or cannot be recognized from a host.
DMES052580	0x01052580	Failed to allocate LU. Confirm the specified value.
DMES052581	0x01052581	The RAID group is not defined. Please specify an existing RAID group.
DMES052583	0x01052583	The Cache Residency function cannot be enabled.
DMES052584	0x01052584	The last LBA in the RAID group defined at RAID1+0 full mapping does not match the current value.
DMES052590	0x01052590	The LU non-owner controller received an LU replacement command (for TRESPASS mode only).
DMES0525A0	0x010525A0	Please retry.
DMES052600	0x01052600	The process failed due to an invalid parameter. Confirm the specified value.
DMES052601	0x01052601	The process failed due to an unsupported parameter. Confirm the specified value.
DMES052602	0x01052602	The process failed due to an invalid parameter. Confirm the specified value.
DMES052604	0x01052604	It failed in release of Persistent Reservation because the type of the Persistent Reserve command was different.
DMES055504	0x01055504	It is impossible to register over 32 LU Reservation Keys.
DMES058C01	0x01058C01	Please retry.
DMES059401	0x01059401	Please retry.
DMES059503	0x01059503	The process cannot be performed because Switch Array failed. Please confirm the subsystem status and then try again.
DMES059505	0x01059505	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMES059510	0x01059510	The process cannot be performed because the firmware is being replaced.
DMES059511	0x01059511	The process cannot be performed because the SVP is being replaced.
DMES059520	0x01059520	The specified function cannot be performed because the subsystem is in an incorrect status for execution. Please confirm there are no alarms/warnings in the subsystem, or the configuration is changed.
DMES059521	0x01059521	Change in HotStandbyMode from DualActiveMode and change in DualActiveMode from HotStandbyMode cannot be performed because the PIN exceeded state. Restore PIN data and try again.
DMES059530	0x01059530	The specified User ID is not registered.
DMES059531	0x01059531	Could not execute the function, because another user is already logged in.
DMES059532	0x01059532	The specified User ID is already registered.
DMES059533	0x01059533	Failed in registration, because 20 users have already been registered.
DMES059534	0x01059534	Specified password is not confirmed.

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Message code	Error code	Message text/Recovery methods
DMES059535	0x01059535	Another user already logged in.
DMES059536	0x01059536	The function cannot be used because it is not installed, locked, or disabled.
DMES059537	0x01059537	The function cannot be executed because you haven't logged in.
DMES059540	0x01059540	A spare disk is defined within the range of the specified RAID group. Please specify the range which does not contain a spare disk.
DMES059541	0x01059541	The drive capacity of RAID group is invalid, or the RAID group capacity is too large.
DMES059542	0x01059542	The specified drive cannot be used as a spare drive.
DMES059543	0x01059543	The number of spare drives has reached the maximum.
DMES059544	0x01059544	The specified drive is already defined as a spare drive, or is already being used in the RAID group.
DMES059545	0x01059545	The specified drive capacity is smaller than that of the RAID group.
DMES059546	0x01059546	The specified drive is not defined as a spare drive.
DMES059547	0x01059547	The specified spare drive cannot be released because it is in use.
DMES059548	0x01059548	The specified function has already been unlocked.
DMES059549	0x01059549	The specified function has already been locked.
DMES05954A	0x0105954A	Invalid key code.
DMES05954B	0x0105954B	The RAID group cannot be defined because the drive is not mounted, or a blocked drive exists.
DMES05954C	0x0105954C	The specified drive cannot be defined as a spare drive because it is not mounted or is in blocked status.
DMES05954D	0x0105954D	The process cannot be performed because the target mode is not M-TID, M-LUN.
DMES05954E	0x0105954E	The process cannot be performed because the addition of target information required but changed or deleted information exist.
DMES059550	0x01059550	The function cannot be executed because of write prohibition.
DMES059551	0x01059551	The function cannot be executed because concealment mode is enabled.
DMES059552	0x01059552	The function cannot be executed because the coupling LU or command device exists.
DMES059554	0x01059554	The function cannot be executed because the command device is not registered.
DMES059555	0x01059555	The function cannot be executed because the stripe size is not 64KB.
DMES059557	0x01059557	LU capacities of the P-VOL and S-VOL are not the same. Check the capacity of the LU.
DMES059558	0x01059558	The process cannot be performed because the specified LU is a unified LU, or unified LUs exist.
DMES059559	0x01059559	The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.
DMES05955A	0x0105955A	The unification cannot be performed because the controllers in charge of the LUs do not match.
DMES05955B	0x0105955B	The unification cannot be performed because the controller in charge of LU is reserved to be changed. Cancel the reservation and then try again.
DMES05955C	0x0105955C	The LU of RAID0 cannot be unified. Specify an LU which the RAID level is not RAID0.
DMES05955D	0x0105955D	The unification cannot be performed because the size of the unified LU will exceed the maximum.
DMES05955E	0x0105955E	The separation cannot be performed because the specified LU is not a unified LU. Specify a unified LU and then try again.
DMES059560	0x01059560	The process cannot be performed because the target mode is not M-TID, M-LUN.
DMES059561	0x01059561	The process cannot be performed because the target mode is M-TID, M-LUN, but target information have already been set.
DMES059562	0x01059562	The unification cannot be performed because the specified Sub LU is a unified LU. Specify a non-unified LU for Sub LU and then try again.
DMES059563	0x01059563	The unification or separation cannot be performed because the specified LU is a Sub LU. Specify a Main LU (unified LU) and then try again.
DMES059564	0x01059564	LU0 cannot be specified as a Sub LU. Specify an LU other than LU0 for Sub LU and then try again.
DMES059565	0x01059565	The unification (LU concatenation) cannot be performed because the status of the LU is not normal (a disk might have failed). Specify an LU where the status is normal, and then try again.
DMES059566	0x01059566	The process cannot be performed because the LU number is over max LU number. Specify a number under max LU number and then try again.
DMES059568	0x01059568	The specified RAID group cannot be deleted because it contains LU0, and Lus exists in other RAID groups.
DMES059569	0x01059569	The specified LU cannot be deleted because it is not the last defined LU.

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Message code	Error code	Message text/Recovery methods
DMES05956A	0x0105956A	Cannot define the specified LU because LU0 is not yet defined. Define LU0 first, and then try again.
DMES05956B	0x0105956B	The capacity is beyond the limits of supported. Split the unnecessary pairs.
DMES059571	0x01059571	Failed to set the path. Please confirm the conditions required for a path setup are met.
DMES059572	0x01059572	Failed to delete the path. Please confirm the conditions required for path deletion are met.
DMES059573	0x01059573	The option which cannot be specified at the same time is unlocked.
DMES059574	0x01059574	The process cannot be performed because Remote Replication is in progress.
DMES059575	0x01059575	The option cannot be locked or disabled because the path has already been set.
DMES059577	0x01059577	The process cannot be performed because the pair creation is in progress.
DMES05957A	0x0105957A	The process cannot be performed because the status of pair is suspend. Please retry after solving the error.
DMES05957B	0x0105957B	The process cannot be performed under 'pair' status. Please retry after splitting the pair.
DMES05957C	0x0105957C	The process cannot be performed because the pair has been created in other subsystem.
DMES05957D	0x0105957D	The process cannot be performed because the subsystem is over the inflow threshold.
DMES05957E	0x0105957E	The process cannot be performed because the status of ShadowImage pair is incorrect.
DMES05957F	0x0105957F	The option cannot be unlocked because it is in use in the fibre channel subsystem.
DMES059580	0x01059580	The process cannot be performed because the RAID Manager is doing a conflicting process. Please wait a moment and then try again.
DMES059590	0x01059590	The process cannot be performed because the subsystem is for the exclusive use of 128 Lus.
DMES059591	0x01059591	The process cannot be performed because the number of ShadowImage pairs reached the maximum.
DMES059596	0x01059596	Please retry.
DMES059600	0x01059600	The process cannot be performed. Wait for a while and then try again.
DMES059601	0x01059601	The specified host group number is invalid.
DMES059602	0x01059602	The process cannot be performed because the specified option is a fee-basis option.
DMES059603	0x01059603	The process cannot be performed because the specified size of LU is over max LU size.
DMES059606	0x01059606	The specified LU is invalid. Specify a valid LU and try again.
DMES059607	0x01059607	The function cannot be executed because the pair LU or SnapShot logical unit already exists.
DMES05960A	0x0105960A	The function cannot be executed because there already exists logical units added to the data pool.
DMES059612	0x01059612	The process cannot be performed because quick formatting is now occurring. Retry after quick formatting is completed.
DMES059615	0x01059615	The process cannot be performed because the specified logical unit is a part of Snapshot pair. Cancel the Snapshot pair and try again.
DMES059617	0x01059617	The process cannot be performed because the specified RAID level is not supported. Specify the RAID level currently supported and try again.
DMES05961A	0x0105961A	The process cannot be performed because parity correction is not completed. Please try again, after It is completed.
DMES05961D	0x0105961D	The RAID group cannot be created because the different drives are specified within the range of a RAID group. Please confirm the drive type and try again.
DMES05961E	0x0105961E	One internal LUN cannot be mapped to two or more host LUN in a port. Please confirm the mapping information and try again.
DMES05961F	0x0105961F	The function cannot be executed because the Hi-Copy pair LU already exists. Cancel the Hi-Copy pair and try again.
DMES05EA03	0x0105EA03	Failed to download the firmware. Please confirm the combination of the specified firmware and the subsystem.
DMES05EA04	0x0105EA04	Failed to replace the firmware. Confirm the subsystem.
DMES05EA10	0x0105EA10	An error was detected in firmware downgrade check. Please retry by using another firmware.
DMES05EA12	0x0105EA12	It is impossible to change from the 128LU version firmware to the 64LU version firmware.
DMES05EA14	0x0105EA14	The firmware cannot be downgraded because the High-speed Sequential Write Mode is enabled. Please set the High-speed Sequential Write Mode to disable then try again.
DMES05EA15	0x0105EA15	The firmware cannot be downgraded because the Random Simple Buffer Size 0% Mode is enabled. Please set the Random Simple Buffer Size 0% Mode to disable then try again.
DMES05EA16	0x0105EA16	The firmware cannot be downgraded on this current spare drive configuration. Please release all spare drives then try again.

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Message code	Error code	Message text/Recovery methods
DMES05EA17	0x0105EA17	The firmware cannot be downgraded because the units are intermixed. Please remove the AT units then try again.
DMES05EA18	0x0105EA18	The firmware cannot be downgraded because the ShadowImage I/O Switch Mode is enabled. Please set the ShadowImage I/O Switch Mode to disable then try again.
DMES05EA19	0x0105EA19	The firmware cannot be downgraded because SnapShot and Cache Residency are unlocked together or not restarted the subsystem after locked. Please lock either option and restart the subsystem, and then try again.
DMES05EA1A	0x0105EA1A	Cannot download, because the firmware does not match to this subsystem. Please retry by using another firmware.
DMES05EA1B	0x0105EA1B	The firmware cannot be downgraded because the RAID group of RAID6 exists. Please retry after deleting it or by using another firmware.
DMES05EA1C	0x0105EA1C	The firmware cannot be downgraded because the non-supported units are connected. Please retry after removing the units or by using another firmware.
DMES05EA1D	0x0105EA1D	The firmware cannot be downgraded because the non-supported cache is connected. Please retry after removing the cache or by using another firmware.
DMES05EA1E	0x0105EA1E	The process cannot be performed because the NNC connected to the specified controller is not shutdown status. Please shutdown the NNC and try again.
DMES05EA1F	0x0105EA1F	The process cannot be performed because the NNC is not shutdown status. Please shutdown the NNC and try again.
DMES05EA20	0x0105EA20	The subsystem cannot be restarted.
DMES05EA30	0x0105EA30	The ENC firmware download and replacement cannot be performed because there is an error in the loop. Please retry after solving the error.
DMES05EA31	0x0105EA31	The process cannot be performed because the ENC firmware is being replaced. Please retry after replacement completes.
DMES05EA32	0x0105EA32	Failed to download the ENC firmware. Please confirm the combination of the specified ENC firmware and the subsystem.
DMES05EA33	0x0105EA33	The ENC firmware of this revision cannot be downloaded. Please retry by using another ENC firmware.
DMES05EA34	0x0105EA34	The sum check error of the ENC firmware occurred. Please retry by using another ENC firmware.
DMES05EA35	0x0105EA35	The ENC firmware is not downloaded. Please try again after downloading.
DMES05EA36	0x0105EA36	Failed to replace the ENC firmware. Please confirm the subsystem.
DMES05EA40	0x0105EA40	The process cannot be performed because the Automatic Download is enabled. Please set the Automatic Download to disable then try again.
DMES05EA41	0x0105EA41	The process cannot be performed because the ENC firmware is being replaced. Please retry after replacement completes.
DMES05EA42	0x0105EA42	The process cannot be performed because the subsystem is under diagnosis process. Please retry after a while.
DMES05EA43	0x0105EA43	The process cannot be performed because the controller is detached. Please recover the controller status and then try again.
DMES05EA44	0x0105EA44	The process cannot be performed because the ENC is detached. Please recover the ENC status and then try again.
DMES05EA45	0x0105EA45	The process cannot be performed in the single-controller system. Please confirm the system configuration.
DMES05EA46	0x0105EA46	The ENC firmware of this revision cannot be replaced. Please retry by using another ENC firmware.
DMES05EA49	0x0105EA49	The firmware replacement cannot be performed because the CPU is heavily-loaded. Please wait a moment and then try again.
DMES05EB04	0x0105EB04	The FDD on the subsystem could not be diagnosed because the FDD is in use.
DMES062900	0x01062900	Please retry.
DMES062A00	0x01062A00	Please retry.
DMES062A03	0x01062A03	About LU, all Reservation Keys and Persistent Reservations were cleared by the Clear service action of the Persistent Reserve command.
DMES062A04	0x01062A04	By register of the Persistent Reserve command or Register & Ignore Key service action, the Reservation Key was cleared, and Persistent Reservation was released.

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DMES062A05	0x01062A05	Reservation Key was cleared by Preempt of the Persistent Reserve command, or the Preempt & Abort service action.
DMES062F00	0x01062F00	Please retry.
DMES063F01	0x01063F01	The firmware is downloaded.
DMES068200	0x01068200	Please retry.
DMES068201	0x01068201	Please retry.
DMES068202	0x01068202	Please retry.
DMES068210	0x01068210	Please retry.
DMES068211	0x01068211	Please retry.
DMES068212	0x01068212	Please retry.
DMES068213	0x01068213	Please retry.
DMES068214	0x01068214	Please retry.
DMES068215	0x01068215	Please retry.
DMES068216	0x01068216	Please retry.
DMES068217	0x01068217	Please retry.
DMES068218	0x01068218	Please retry.
DMES068219	0x01068219	Please retry.
DMES06821A	0x0106821A	Please retry.
DMES068300	0x01068300	Please retry.
DMES068400	0x01068400	Please retry.
DMES079578	0x01079578	The process cannot be performed because the data is being copied.
DMES079595	0x01079595	Please retry.
DMES079597	0x01079597	Please retry.
DMES079598	0x01079598	Please retry.
DMES0B3D00	0x010B3D00	Please retry.
DMES0B4300	0x010B4300	Please retry.
DMES0B4500	0x010B4500	Please retry.
DMES0B4700	0x010B4700	Please retry.
DMES0B4800	0x010B4800	Please retry.
DMES0B4900	0x010B4900	Please retry.
DMES0B4A00	0x010B4A00	Please retry.
DMES0B4B00	0x010B4B00	Please retry.
DMES0B4E00	0x010B4E00	Please retry.
DMES0B9531	0x010B9531	Could not execute the function, because another user is already logged in.
DMES0BC000	0x010BC000	Please retry.
DMES0BC001	0x010BC001	Please retry.
DMES0BC002	0x010BC002	Please retry.
DMES0BC100	0x010BC100	Please retry.
DMES0BC200	0x010BC200	Please retry.
DMES0BDA00	0x010BDA00	The process cannot be performed because the drive recovery is in progress. Please retry after waiting for a while.
DMES0BFD00	0x010BFD00	The process cannot be performed due to LU replacement. Connect to the controller with owner permission and try again.
DMES0BFD01	0x010BFD01	The process for LU replacement is suspended. Please retry after waiting for a while.

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Chapter 9. Failure Analysis by Sense Data

In case of Fibre Channel, when an error occurs Sense Data is stored in Payload of FCP_RSP and transferred to Host Computer.

9.1 Details of Sense Code

The details of Sense Code are shown below.

Sense key	Sense code	Description	Recovery methods	Reference page
0/5	00 00	There is no valid additional sense information.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	01 00	The INDEX signal cannot be detected. The SECTOR signal cannot be detected.		
1/4	02 00	Seek operation in the Disk Drive cannot be executed correctly.		
4	03 00	A Write Fault was detected in the Disk Drive.		
2	04 00	The LU connected cannot execute a command because LUs are being formatted.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
2	04 01	The Disk Drive will soon become ready although it is currently not ready.		
2	04 02	The Disk Drive is currently not ready; it has not been spun-up.		
2	04 03	The host I/O cannot be executed because the Disk Drive is spin-down with the Power Saving function.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
2	04 04	The logical unit is currently not ready. (It is executing the formatting command.)	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
2	04 14	The Write system command of the host to the sub block to which the page was not assigned was not executed because DP Pool was being formatted. (When the DP Depletion Detail Reply Mode is ON)	After the DP Pool formatting is completed, retry a host command.	–
2	04 84	A sequential shutdown is in progress.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
2	05 00	An error occurred in the drive interface in the logical unit.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
1/4	06 00	The positioning to Track 0 failed.		
4	07 00	Two or more Disk Drives were selected at the same time.		
4	08 00	An error occurred in the drive interface in the logical unit.		
4	08 01	A time-out error occurred in the drive interface in the logical unit.		
1/4	08 02	A parity error occurred in the drive interface in the logical unit.		

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Sense key	Sense code	Description	Recovery methods	Reference page
1/4	09 00	A track positioning failed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
3	0C 02	An automatic allocation was executed against the write error but failed.		
3	0C FF	Write processing time exceeded Recovery Time Limit, write processing was terminated.		
A	0D 02	The XCOPY command which made a subsystem other than this array subsystem a copy target was issued.	Change the subsystem serial number of the copy target registered in the parameter list of the XCOPY command to the subsystem serial number of this array subsystem, and issue the XCOPY command again.	–
3	10 00	A CRC error occurred in the ID field.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
3	11 00	An error occurred in the data field.		
3	11 01	Reading of the data field was retried but the error was not recovered. (An error correction was not applied.)		
3	11 02	The read error in the data field could not be corrected by means of the ECC.		
3	11 04	An automatic reallocation was executed against the recoverable error but failed		
3	11 FF	Read or Verify processing time exceeded Recovery Time Limit, read or verify processing was terminated.		
3	12 00	The address mark of the ID field could not be detected.		
1/3	13 00	The address mark of the data field could not be detected.		
1/3	14 01	The block with the identical ID field could not be detected.		
1/4	15 01	A seek error occurred.		
1/4	15 02	The seek operation terminated normally but the head was positioned at an address not intended.		
1	17 00	The error was recovered by a retry.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
1	17 01	The error was recovered by a retry (without a head offset).		
1	17 02	The error was recovered by a retry with a head offset in the positive direction.		
1	17 03	The error was recovered by a retry with a head offset in the negative direction.		
1	18 00	The error was recovered by the ECC (without a retry).		
1	18 01	The error was recovered by the ECC applied in a retry.		
1	18 02	Data was recovered by an automatic reallocation.		
1/3	19 02	An error occurred during an access to the Primary (P) list.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
1/3	19 03	An error occurred during an access to the Grown (G) list.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	1A 00	The parameter list length is illegal.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	1B 00	A synchronous data transfer error occurred in a data transfer.		
3	1C 01	The positioning to the Primary (P) list failed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
3	1C 02	The positioning to the Primary (P) list failed.		
E	1D 00	A data compare error occurred during WRITE BUFFER or READ BUFFER verifies processing. Or a data compare error occurred during COMPARE AND WRITE command.		
5	20 00	The operation code is invalid.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	21 00	An attempt was made to access beyond the logical block address reported with Read Capacity (PMI bit=0).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	22 00	• The Read command could not be executed because the access level had been set with Data Retention Utility. • The read command from the host was unable to be executed because there was no usable capacity for the DP Pool.	–	–
5	24 00	There is an invalid field in the CDB. Ex.: RESERVED Bit/VALUE ≠ ZERO	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	25 00	The LUN shown by the CDB or Identify message is not supported.		
5	25 80	The logical unit allocation failed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	25 81	The RAID group (RG) is not defined.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
5	25 83	P The Turbo LU specification was rejected by the specification condition check.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	25 84	The current value of the Row Last LBA in the RAID group is different from that when RAID 1+0 full mapping was defined.		
5	25 90	The controller with no LU owner right received a command to switch the LU (in the case of the Trespass mode).	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
5	25 A0	The divisional transfer failed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	26 00	There is an invalid field in the parameter list.		
5	26 01	An unsupported parameter was received.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	26 02	The parameter value is invalid.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	26 04	The release from the Persistent Reservation failed because the type of the Persistent Reserve command was different.		
7	27 00	• The write command could not be executed because the access level had been set with Data Retention Utility.	–	–
		• Since there was no capacity which can be used for the DP Pool, the firmware was unable to execute the Write system command from the host.	Add the DP Pool capacity using Hitachi Storage Navigator Modular 2 according to "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
7	27 07	Firmware could not perform the Write system command from the host because of a lack of available capacity in the DP pool. (When the DP Depletion Detail Reply Mode is ON)		
6	29 00	• A Power On Reset occurred. • An internal reset occurred owing to a serious hardware error.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
6	2A 00	• The Mode Select parameter was changed. • Another system received the SCSI Reset in the dual configuration. Ex,: A parameter was changed by the Mode Select command.		
6	2A 03	The Reservation Key and Persistent Reservation of the LU concerned were all cleared by the Clear service action of the Persistent Reserve command.		
6	2A 04	The Reservation Key was deleted and the Persistent Reservation was cancelled by the Register or Resister &Ignre Key service action of the Persistent Reserve command.		
6	2A 05	The Reservation Key was deleted by the Preempt or Preempt & Abort service action of the Persistent Reserve command.		
6	2F 00	The command was cleared according to the Clear Queue message from another initiator or owing to an occurrence of the CA status in the initiator.		
3	31 00	The medium is not formatted correctly; it must be reformatted by the Format Unit command	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
3	31 01	The Format command terminated abnormally; it must be reformatted by the Format Unit command.		
3	31 80	The data format for the disk array is not established.		
3	31 81	• The format command cannot be executed because the Disk Drive configuration is incomplete (i.e., the data or parity drive is detached). • An attempt was made to execute the format command beyond the actual disk capacity.		
1/4	32 00	The reallocation cannot be done because the alternative area is insufficient.		
1/3	32 01	The update of the Grown (G) list failed.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	35 01	An ENC time-out (FC) or an illegal frame was sent (SATA).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
1	37 00	The processing was executed with the parameter value rounded because it could not be executed with the original value.	–	–
6	38 07	UA (Unit Attention) reply was returned to the host because the DP Pool capacity whose the DP volume tried to execute a host command is depleted when the DP Depletion Detail Reply Mode of the Host Group Option is enabled.	Add the DP Pool capacity referring to the "Dynamic Provisioning User's Guide".	"Dynamic Provisioning User's Guide"
B	3D 00	An invalid bit was detected in the Identify message.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
2	3E 00	The self- configuration of the Disk Drive is not established yet.		
6	3F 01	The firmware was downloaded.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	43 00	The operation cannot be continued because the message was rejected or an error occurred in the Message phase.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
4	44 00	A hardware or firmware error was detected in the Controller during the command execution.		
		A abnormal end of the Formatting job generated by the read command was detected.		
		A abnormal end of the Formatting job generated by the write command was detected.		
		(HDMA transfer failure) The Bridge failure interrupt was detected in the DMA transfer LSI (D-CTL) when checking the completion of the dual writing to the Cache Memory.	–	–
4	44 A0	No sector to be reassigned cannot be detected.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	45 00	A Select/ Reselect time-over was detected. An invalid selection was detected.		
B	47 00	A Fibre Channel bus on CRC error occurred.		
B	48 00	The Initiator Detected Error message was received from the initiator.		
B	49 00	• An invalid message was detected.		
		• The communication via a LAN was not done normally because of a LAN failure.		

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Sense key	Sense code	Description	Recovery methods	Reference page
B	4A 00	An error occurred during accepting of the command.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
		(HDMA transfer failure) Since the transfer range includes the LA/LRC error block, the firmware deterred the start of the DMA transfer (Cache Memory → Host).	–	–
B	4B 00	An error occurred during data transfer.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	4C 00	A loading of a firmware or parameter failed when starting up the controller.		
B	4E 00	• Two commands with no tag was issued to the same I-T-L. • Commands with and without tags were issued to the same I-T-L. (When this code is reported, all the commands queuing for the I-T-L concerned are cleared.)		
5	55 04	A registration of 32 or more Reservation Keys in an LU was attempted.		
1	5B 00	An exceptional log in the Disk Drive was detected.		
1	5B 02	The log counter in the Disk Drive reached its maximum value.		
1	5B 03	All log list codes in the Disk Drive were used up.		
1/6	5C 02	A synchronous lead-in failure or synchronous loss after synchronization was detected.	–	–

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Sense key	Sense code	Description	Recovery methods	Reference page
A	80 00	The copy source LU changed to unreadable status while XCOPY command was executed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
A	80 01	The copy destination LU changed to unwritable status while XCOPY command was executed.		
A	80 02	XCOPY command was issued from the host for the pair configuration where XCOPY command cannot be executed.		
A	80 03	While a copy of the ShadowImage, SnapShot, or TrueCopy Extended Distance was executed by XCOPY command, the copy terminated abnormally.		
6	82 00	The disk recovery by means of a drive recovery completed normally(*1).	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
6	82 01	Unrecoverable data was generated although the disk recovery by means of a drive recovery completed normally.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
6	82 02	The Disk Drive recovery by means of a Disk Drive recovery completed normally. But the configuration status was not changed to that in which the recovery had completed because a unrecoverable error occurred(*1).		
6	82 10	The Disk Drive recovery was forcibly terminated by an operator instruction(*1).	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
6	82 11	The Disk Drive recovery was forcibly terminated because a media error was detected in the Disk Drive recovery source disk during the drive recovery(*1).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
6	82 12	The Disk Drive recovery was forcibly terminated because a media error was detected in the Disk Drive recovery destination disk during the drive recovery(*1).		
6	82 13	The Disk Drive recovery was forcibly terminated because a hardware error was detected in the Disk Drive recovery source disk during the drive recovery(*1).		
6	82 14	The Disk Drive recovery was forcibly terminated because a hardware error was detected in the Disk Drive recovery destination Disk Drive during the drive recovery(*1).		
6	82 15	The Disk Drive recovery was forcibly terminated because the Disk Drive recovery source disk was blocked during the Disk Drive recovery(*1).		
6	82 16	The Disk Drive recovery was forcibly terminated because the Disk Drive recovery destination Disk Drive was blocked during the drive recovery(*1).		

*1 : The sense code is not reported to the host. (It is reported as the Sense Information on Mode Sense page 34_H.)

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Sense key	Sense code	Description	Recovery methods	Reference page
6	82 17	The Disk Drive recovery was forcibly terminated because a hardware error was detected in an inter-cache control during the Disk Drive recovery.(*1).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
6	82 18	The Disk Drive recovery was forcibly terminated because the status of the configuration information changed (*1).		
6	82 19	The Disk Drive could not be started because data for write-after remains in the recovery destination Spare Disk(*1).		
6	82 1A	The Disk Drive recovery was forcibly terminated because an time-out occurred in an internal process(*1).		
B	83 00	The dump information was changed because another controller was blocked during a collection of the Send Diag drive dump.		
4	8A 01	A parity error was detected during a medium parity consistency check.		
4	8A 02	A parity error was detected during a medium LA consistency check.		
1	8A 03	Intermediate pinned data and dirty data were found during a parity consistency check.		
1	8A 04	Remaining intermediate or physical dirty data and pinned data were found during an LA consistency check of a medium.		
1	8B 01	An inoperable command was issued to the blocked logical unit.		
5	8C 01	Parity check was required in the Regression mode.		
3	8E 01	An instruction to read or verify was given to the block on which a writing has not completed.		
3	8E 02	Reading on the V-Vol was attempted it could not be done because of the incomplete DDCB.		
3	8E 03	Writing on the V-Vol was attempted it could not be done because of the incomplete DDCB.		
1	8E 04	Write through was operated due to failures of the Power Unit, UPS and Control Unit.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
3	8E 05	A copy or restore by a general purpose ASYNC job was not completed in execution of Copy-on-write SnapShot.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
		Copy or Restore of SnapShot executed synchronously with the host I/O timed out.		
3	8E 06	The copy to ShadowImage S-VOL that operated by the Write command extension to match the primary/secondary data was not completed due to the time-out.		
3	8E 07	The completion of the job related to the general-purpose copy job timed out.	Retry the command.	–

*1 : The sense code is not reported to the host. (It is reported as the Sense Information on Mode Sense page 34_H.)

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Sense key	Sense code	Description	Recovery methods	Reference page
3/4	90 00	An unrecoverable data error occurred during a data recovery with parity disk data.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
3/4	90 01	An unrecoverable data error occurred during operation in the Regression mode.		
4	91 00	Data could not be reconstructed because an unrecoverable error was detected during an automatic allocation		
4	91 01	The alternative block could not be reallocated in an automatic reallocation.		
3	93 00	A parity adjustment error occurred in the Cache memory.		
5	94 01	The Control Unit with no LU owner right received a command to switch the LU (in the case of the Alternate Paths 1 and 2).	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
2	95 00	The pseudo sequential shutdown is in progress.		
2	95 01	The pseudo sequential shutdown terminated normally.		
4	95 02	The pseudo sequential shutdown terminated abnormally.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	95 03	The synchronize cache command, which requires pseudo planned shutdown for switching the access path, was not executed. The reason is shown in each detail code.		
		Detail code: 1 Because the subsystem is under pseudo planned shutdown.	1. Restart the subsystem.	–
			2. Execute the access path switching.	–
		Detail code 2: Because the synchronize cache command, which requires the pseudo planned shutdown by access path switching, was received from the host computer of iSCSI I/F.	The synchronize cache command, which requires the pseudo planned shutdown by access path switching, was issued from the host computer of iSCSI I/F. Execute the pseudo planned shutdown by access path switching from Hitachi Storage Navigator Modular 2.	–
		Detail code: 3 Because the auto migration is not completed.	The command was not executed because the auto migration was not completed. Execute the access path switching after completing the auto migration.	–
		Detail code: 4 Because the pseudo planned shutdown by access path switching is already completed.	The pseudo planned shutdown by access path switching is already completed. Therefore, the command, which requires the pseudo planned shutdown by access path switching, cannot be executed or it is not needed.	–
		Detail code: 5 Because the synchronize cache command, which requires the pseudo planned shutdown by access path switching, was received although the subsystem was not array.	The command exclusive for array was received. Connect it to the subsystem which was going to execute the command from Hitachi Storage Navigator Modular 2, and then execute the command.	–

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Sense key	Sense code	Description	Recovery methods	Reference page
4	95 04	The pseudo planned shutdown by access path switching was not executed. When this error occurs, the pseudo planned shutdown is not executed and the subsystem is still Ready. Errors occur in the following cases.		
		① The access path switching failed because CHK1Reset and Control Unit blockade occurred.	Execute the access path switching from Hitachi Storage Navigator Modular 2 again.	–
		② The access path switching failed because the Power Unit of the subsystem was turned off.	1. Turn on the Power Unit of Original Array.	–
			2. Execute the access path switching from Hitachi Storage Navigator Modular 2.	–
		③ The data migration failed because a Disk Drive failure occurred in Original Array with no empty slot in repair slots and the pair status of the ShadowImage pair of the auto migration changed to PSUE.	When a Disk Drive failure occurs in Original Array, check if there are empty slots in spare slots. When there is no empty slot in repair slots of Original Array, the auto migration cannot be executed. If Original Array can access from the host computer, set the same setting contents in a New Array as the various settings of Original Array, and then request the customer to copy the user data of Original Array to the New Array via host computer. If Original Array cannot access from the host computer, set the same setting contents in New Array as the various settings of Original Array, and then request the customer to restore his/her backup data in New Array.	–
		④ The data migration failed because a Disk Drive failure occurred in the Original Array subsystem with empty slots in repair slots and the pair status of the ShadowImage pair of the auto migration changed to PSUE.	–	–
		⑤ The data migration failed because a Disk Drive failure occurred in the New Array and the pair status of the ShadowImage pair of the data migration changed to PSUE.	–	–
		To be continued to the next page.		

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Sense key	Sense code	Description	Recovery methods	Reference page
		⑥ The pseudo planned shutdown failed because a failure of which the number of PIN exceeds the threshold value occurred in Original Array with no empty slot in repair slots.	When a failure of which the number of PINs exceeds the threshold value occurs in Original Array, check if there are empty slots in repair slots of Original Array. When there is no empty slot in repair slots of Original Array, the auto migration cannot be executed. If Original Array can access from the host computer, set the same setting contents in New Array as the various settings of Original Array, and then request the customer to copy the user data of Original Array to New Array via host computer. If Original Array cannot access from the host computer, set the same setting contents in New Array as the various settings of Original Array, and then request the customer to restore his/her backup data in New Array.	–
		⑦ The pseudo planned shutdown failed because a failure of which the number of PIN exceeds the threshold value occurred in Original Array with empty slots in repair slots.	When a failure of which the number of PINs exceeds the threshold value occurs in Original Array, check if there are empty slots in repair slots of Original Array. When there are empty slots in repair slots of Original Array, contact for inquiries.	–
		⑧ The pseudo planned shutdown failed because PIN over occurred in New Array.	–	–
5	95 05	The subsystem cannot execute the command because the array is being switched.	Wait until the array switching is completed. Check the operation procedure.	–
5	95 10	The command cannot be executed because the firmware is being replaced.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
5	95 20	The Mode Select/Mode Sense $3E_H$ (extended code 03_H/04_H/05_H/06_H) was received in the state in which no command could be executed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	95 36	The priced option function is in the unsupported status.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
5	95 37	The command cannot be executed because you haven't logged in.		
5	95 40	A Spare Disk has been defined within a range of the designated RG (at the time of the RG setting).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	
5	95 41	The Disk Drive capacity is illegal (when the RG is set). The cause may be one the following. 1. The capacity of the data disk exceeds that of the Spare Disk. 2. When the RG was expanded, the Disk Drive capacity of the added portion was smaller than that of the Disk Drive that had already been defined.		
5	95 42	The designated Disk Drive is that which cannot be defined as a Spare Disk (at the time of the Spare Disk designation).		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	95 43	The number of the specified Spare Disks exceeds maximum definable value (at the time of the Spare Disk designation).	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 44	The designated drive has already been defined as a Spare Disk or an RG (at the time of the Spare Disk specification).		
5	95 45	The value of the designated Last LBA is less than the maximum Last LBA of the RG (at the time of the Spare Disk designation). (The cases where the drive is blocked or uninstalled are excluded.)		
5	95 46	An instruction to release a drive of a Spare Disk was issued to the Disk Drive which was not designated as a Spare Drive (at the time of the Spare Disk release).		
5	95 47	The Spare Disk is being used though it was specified to be released of the Spare Disk.	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	
5	95 48	An unlocking instruction was given to the drive which was not locked.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 49	A locking instruction was given to the drive which was already locked.		
5	95 4A	The pricing key code is invalid.		
5	95 4B	The RAID group cannot be set because the uninstalled or blocked Disk Drive is included in the specified Disk Drive.	Select the installed Disk Drive, and set the RAID group. Or, set the RAID group again after replacing the blocked Disk Drive.	System Parameter "Chapter 3. Setting the RAID/LU/Spare Disk" (SYSPR 03-0000) Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
5	95 4D	The process cannot be performed because the target mode is mode is not M-TID, M-LUN. (Mapping mode)	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 4E	The process cannot be performed because the target information are changed or deleted.		
5/7	95 50	Command not execute for write prohibition.		
5	95 51	Command not execute for concealment mode.		
5	95 52	Command not execute for coupling LU or Command Device exist.		
5	95 53	Ap distinction number is full.		
5	95 54	Command response can not be done because command device is not set.		
5	95 56	The command cannot be executed because a failure occurred during the reverse resynchronization or the I/O switch operation.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	95 57	• (LU Size Non-Rounding mode is off) A pair cannot be formed because the primary and secondary LU sizes (host LU size = rounded LU size) are not the same. • (LU Size Non-Rounding mode is on) A pair cannot be formed because the primary and secondary LU sizes (either or both of the host LU sizes and rounded LU sizes) are not the same.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 58	The command cannot be issued because LU unification is in progress.		
5	95 59	LU unification, a dissolution of LU unification, or a separation of a final LU could not be done because an internal LU to have been used for the operation above was a Turbo LU or a reserved Turbo LU.		
5	95 5A	The LU unification could not be done because Controllers that control LUs to be unified were not the same.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 5B	The LU unification could not be done because a Controller that controls the LUs to be unified was being changed.		
5	95 5C	The LU unification could not be done because a RAID level of the LUs to be unified was RAID 0.		
5	95 5D	The LU unification could not be done because an LU size after the unification would be larger than 2 Tbytes.		
5	95 5E	A dissolution of LU unification or a separation of a final LU could not be done because the LU concerned was not a unified LU.		
5	95 62	The LU unification could not be done because a unified LU was selected as a Sub LU to be unified.		
5	95 63	LU unification, a dissolution of a unified LU or a separation of a final LU could not be done because a Sub LU had been selected.		
5	95 64	The LU unification could not be done because the LU #0 was selected as the Sub LU.		
7	95 65	The LU unification could not be done because an LU status was other than normal or regression.		
5	95 66	The LU unification could not be done because the number of the internal LU that configures the unified LU exceeded 2047.		
5	95 67	LU unification, a dissolution of an LU unification, or a expansion of a final LU could not be done because the LU unifying function (enhancing function) was not validated.		
5	95 69	The final LU could not be deleted because it was not specified.		
5	95 6B	Because the differential bit could not be assigned, the pair forming command of the MRCF-Lite could not be executed.		
5	95 71	The path could not be set.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	95 72	The path could not be deleted.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 73	Since a function that cannot coexist with the function was being used in the system, the key for the extra-cost option could not be open.		
5	95 74	The command could not be executed because the remote copy function was being used.		
5	95 75	The command could not be executed because the path was already defined.		
5	95 76	The pair operation command from RAID Manager could not be executed.		
5	95 77	The command (host or Hitachi Storage Navigator Modular 2) could not be executed because the pair was being generated.		
7	95 78	The host command could not be executed because data copy was on progress.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	95 79	The host command could not be executed because the primary volume was write-protected.		
5	95 7A	The host command could not be executed because the pair status is PSUE (suspended due to failure).		
5	95 7B	The command could not be executed between the devices because the pair status was invalid.		
5	95 7C	The command could not be executed between the devices because the remote device was already paired with another device.		
5	95 7D	The command issued by a DF to another DF cannot be executed because the limit of the inflow has been exceeded.		
5	95 7E	The command issued by a DF to another DF cannot be executed because a status of the pair formed by the ShadowImage in-system replication is invalid.		
5	95 80	The command cannot be executed because the command from RAID Manager is being received.		
B	95 81	Any further processing cannot be executed because the SEL command is received consecutively.	Execute it again after waiting for a while.	–
5	95 91	The setting of or reference to the pairs, number of which exceeds the allowable maximum value, was attempted.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
7	95 95	The write command could not be executed because the fence level was data.		
5	95 96	The read command could not be executed because the concealment mode was turned on for the remote copy function.		
7	95 97	The write command could not be executed because the secondary volume was in the paired status in the remote copy function.		

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Sense key	Sense code	Description	Recovery methods	Reference page
7	95 98	The write command could not be executed due to the restriction on the secondary volume access in the remote copy function.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	95 99	The pair status transited to PSUE because the write command failed duplicate write.		
2	95 9A	The vendor unique command cannot be executed in order to avoid a deadlock owing to a duplex writing.		
2	95 9B	The read/write command cannot be executed because the read access mode is "Enable" when the fence level is "data."		
7	95 9D	The command cannot be executed because the HUB mode is ON.		
2	95 9E	The command was unable to be executed because TrueCopy remote replication was under execution in the subsystem of the command issue destination,	The operation is not required because it retries inside the DF.	–
2	95 9F	The command was unable to be executed because two or more commands from RAID Manager were in process.		
4	96 00	The ShadowImage pair status changed to PSUE during the Write system command operation.	① 1. Recover the ShadowImage pair from PSUE. 2. Return the ShadowImage pair status to the customer service status.	–
5	96 00	Storage Hitachi Navigator Modular 2 command sequence error (Another command is being executed in the disk array system.)	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	96 01	The setting was made for a host group other than 0.		
5	96 02	The command could not be executed because locking or unlocking operation for the feature other than purchasable optional features was attempted.		
5	96 03	The command could not be executed because locking or unlocking operation for the feature other than purchasable optional features was attempted.		
5	96 04	Writing of the system parameters on five drives failed.		
5	96 05	Although the Control Units in charge of the copy source LU/copy destination LU/command reception LU differ, the XCOPY command cannot be executed because the LU switching is impossible.		
5	96 07	The execution could not be done because the pair was a Copy-on-write SnapShot pair.		
5	96 08	The pair operation command issued by RAID Manager could not be executed.		
2	96 09	The pair operation command cannot be executed from RAID Manager. (Waiting for a command to be retried from RAID Manager.)		
5	96 0A	The command could not be executed because the LU was that in the pool filed.		
5	96 0B	The pool management filed is invalid.		

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Sense key	Sense code	Description	Recovery methods	Reference page
5	96 0C	The command could not be executed because a reading was prohibited.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	96 0D	A reading in an S-VOL was attempted when the pair status was special PSUE, however, it failed.		
5	96 11	The access level could not be changed.		
5	96 12	The execution was impossible because the Format was in progress.		
5	96 13	The execution was impossible because the access level had been specified.		
7	96 14	The write command could not be executed because the LU forming the Copy-on-write SnapShot pair was in the status in which writing to it was prohibited.		
7	96 15	The LU could not be formatted because it formed a Copy-on-write SnapShot pair.		
5	96 16	No pair formation enabled because more than 33 pairs existed in the same group ID with the specified group ID.		
5	96 17	The RG (RAID group) could not be defined because a RAID level specified for the RG was RAID 0.	Specify a RAID level other than RAID 0.	–
5	96 18	The execution was impossible because the status of the LU concerning the parity correction was "Uncorrected" or "Correction Aborted".	Retry after issuing an instruction to make or skip the parity correction using the Hitachi Storage Navigator Modular 2.	–
5	96 19	The command of the Juke Box function could not be executed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	96 1A	The execution was impossible because the restoration for the LU by means of parity was "Uncorrected", "Correction Aborted", "Parity Correction", or "Waiting Parity Correction".	Issue an instruction to make or skip the parity correction using the Hitachi Storage Navigator Modular 2 and retry after the restoration for the LU by means of parity is "Restored" or "Correction Skipped".	Troubleshooting "6.1.3 < Procedure given in windows >" (TRBL 06-0320)
7	96 1B	A command was issued to an inaccessible area while the forced parity correction, which was made with the subsystem power turned on, was in progress.	Execute the forced parity correction or "Correction Skipped".	
5	96 1C	The ShadowImage in-system replication pair operation could not be executed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	96 1D	The RG (RAID group) could not be defined because the specified RG included both of the FC and SATA drives.	Make sure of the operation and try again.	–
B	96 1E	A response with a notification that the status had been changed to special PSUE was made during execution of the R/W command.	Retry the execution of the command.	–
5	96 1F	It cannot be executed due to the Hi-Copy pair.	Execute it again after releasing the Hi-Copy pair.	–
2	96 20	It responded the check condition requesting retry of the vendor unique command of TrueCopy Asynchronous to the local disk subsystem.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)

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Sense key	Sense code	Description	Recovery methods	Reference page
5	96 20	The Hi-Copy operation cannot be executed.	Check the status of the subsystem on the other side.	–
5	96 21	It responded the check condition indicating that the vendor unique command of TrueCopy Asynchronous terminates abnormally and retry is impossible to the local disk subsystem.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	96 22	The RAID Manager command for setting TrueCopy Asynchronous was unable to be executed.		
5	96 23	The RAID Manager command was unable to be executed.		
5	96 24	The command is unable to be executed because the pair status of TrueCopy Asynchronous does not meet the command execution conditions.		
1	96 25	The priced option of "Modular Volume Migration" became enabled from disabled.	–	–
1	96 26	The priced option of "Modular Volume Migration" became disabled from enabled.	–	–
1	96 27	The locked priced-option of "Modular Volume Migration was unlocked.	–	–
1	96 28	The priced option of "Modular Volume Migration", which was unlocked and enabled, was locked.	–	–
1	96 29	A copy of the Modular Volume Migration started from the RAID Manager but it could not be executed.	–	–
5	96 30	The host group option for the command is not enabled during the XCOPY command operation.	Set the special Extended Copy mode of the host group option.	System Parameter "2.2 Setting of Option" (SYSPR 02-0010)
5	96 31	The command cannot be executed because the target LUs create a pair.	Cancel the pair of the copy system function (ShadowImage, SnapShot, TrueCopy remote replication, TrueCopy Extended Distance) for the logical unit where the command was issued.	–
5	96 32	The host group option for the command is not enabled during the Write Same command operation.	Set the special Write Same mode of the host group option.	System Parameter "2.2 Setting of Option" (SYSPR 02-0010)
4	97 00	A copy job of Copy-on-write SnapShot terminated abnormally.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	97 01	A restoration job of Copy-on-write SnapShot terminated abnormally.		
4	97 02	The status of the Copy-on-write SnapShot pair was changed to PSUE.		
4	97 03	The status of the Copy-on-write SnapShot pair was changed to PSUE because the restoration failed.		
4	98 01	The general-purpose copy job terminated abnormally.		
4	99 00	Data in the cache cannot be written on the drive in a synchronized cache.		
5	99 01	The command (R.M command) was issued to the remote subsystem by the command of the RAID Manager, but the time-out of the retry of the command occurred.	Execute it again after waiting for a while.	–

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Sense key	Sense code	Description	Recovery methods	Reference page
5	99 04	When the SyncCache command is started in the PIN elimination mode, the CHECK response is done.	① 1. When the PIN data recovery command executed from Hitachi Storage Navigator Modular 2 becomes an error, perform the version upgrade of the firmware of the subsystem to the revision supporting the recovery function of the PIN data because the firmware of the subsystem does not support the recovery function of the PIN data. 2. Execute the command again. ② The Synchronize Cache command to make the dirty data executed from the host computer destage becomes an error, set the Vendor Unique bit of CDB of the Synchronize Cache command to "0", and issue the command.	– –
4	9A 01	The DMA (DRR) hardware error was detected during a diagnosis of Disk Drives.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
5	9F FE	Representative sense key and sense code of the pair operation system command Check response from Hitachi Storage Navigator Modular 2. This indicates that when the pair related command was executed from Hitachi Storage Navigator Modular 2, the command terminated abnormally.	Take a recovery action referring to "9.2 List of Detail Codes of Sense Code (5/9FFE)".	"9.2 List of Detail Codes of Sense Code (5/9FFE)" (MSG 09-0220)
5	9F FF	A sense key and sense code to be used exclusively for responding to Hitachi Storage Navigator Modular 2 and RAID Manager.	Take a recovery action referring to "9.3 List of Detail Codes of Sense Code (5/9FFF)".	"9.3 List of Detail Codes of Sense Code (5/9FFF)" (MSG 09-0890)
4	A0 00	A failure occurred in the cache circuit.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	A1 00	An invalid boundary error occurred during DMA transfer.		
B	C0 00	Although 1.5 seconds have passed after the front-end port in which the special command response mode was set as enabled received the command, since the command processing was not started, the command timed out.		
		XCOPY JOB was waiting for sleep because the LU owner right switching processing was operating. However, since the LU owner right switching processing is not completed even after 30 seconds passed, the time-out occurred in the waiting processing of sleep of XCOPY JOB.		
		Since the page of Hitachi Dynamic Provisioning to be released by the WriteSame command JOB was processed by the other JOB, the page was not released within the specified time, and the release of the page timed out.		
		A time-out occurred during an internal processing or data transfer.		

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Sense key	Sense code	Description	Recovery methods	Reference page
B	C0 01	A time-out occurred during a data transfer between a host computer.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	C0 02	The command cannot be executed continuously due to the Control Unit blockade on the cross call operation side.		
B	C0 03	A time-out occurred during a data transfer between a host computer.		
B	C0 04	A time-out of the Formatting job generated by the read command or write command were detected.		
B	C0 05	The read command and write command of the host were unable to be executed because there is no usable capacity of the DP pool or the DP pool is in preparation (format) in the subsystem.	Check the DP pool total capacity and consumed capacity using Hitachi Storage navigator Modular 2 and, if the DP Pool free capacity is depleted, add the DP Pool capacity according to the "Dynamic Provisioning User's Guide". If free capacity is available, after formatting of the DP pool is completed, retry the host command.	–
B	C0 06	A segment securing waiting time-out occurred.	–	–
B	C0 07	The completion of the general-purpose job timed out.	Retry the command.	–
B	C0 0A	A CRC error occurred during a data transfer between a host computer.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	C0 0B	The copy or restoration of True Copy Extended Distance/Copy-on-write SnapShot executed synchronously with the host I/O timed out.	Retry the host command.	–
B	C0 0C	Since the TrueCopy remote replication (TC) copy by the write command failed, the write command JOB changed the TC pair status to PSUE.		
B	C0 0D	The copy to the ShadowImage secondary volume operated by the write system command to match the data of the ShadowImage primary and secondary volumes could not be completed due to a time-out. Therefore, the write system command terminated abnormally.		
B	C0 0E	The copy processing by the XCOPY command timed out.		
B	C1 00	The cache necessary for the formatting cannot be assigned.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
B	C2 00	The system current drive was changed		
B	DA 00	The new data recovery request cannot be accepted because another Disk Drive is being recovered		

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Sense key	Sense code	Description	Recovery methods	Reference page
6	E0 00	The Cache battery voltage decreased.	–	–
6	E2 00	FAN STOP	–	–
4	E4 00	The system area overflowed(*1). (Pinned data management area)	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
6	E5 00	Abnormality of the power supply section occurred.	–	–
6	E5 01	The DC voltage decreased.	–	–
6	EA 00	There was a Disk Drive on which the take-over information could not be written.	–	–
4	EA 01	The program size which the write buffer received was larger than that of the program area.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	EA 02	The take-over information size which the write buffer received was larger than that of the take-over information of the system.		
5	EA 03	A firmware download error was detected.		
5	EA 04	An error was detected when the hot replacement of the firmware was directed.		
1	EA 05	A firmware installation is in the state in which it has been partially completed.		
4	EA 10	An error in the firmware downgrade check.		
5	EA 13	An error in the firmware upgrade check.		
5	EA 15	A downgrade was made though a specification for the random simple buffer size as 0% was validated.		
5	EA 16	Downgrade of the firmware was performed when 16 or more Spare Disk Drives were used.	Reduce the number of the spare disk drives to 15 or less.	–
5	EA 17	Downgrade of the firmware was performed when the FC and SATA disk array units coexisted.	Make the system configuration have the FC disk array unit only. (A configuration with the SATA disk array unit only is not supported.)	–
5	EA 1A	A system version check error occurred in the firmware download.	Use the firmware corresponding to the subsystem and do the update installation of the firmware again.	Firmware "Chapter 1. Installation of Firmware" (FIRM 01-0000)
5	EA 1E	Because the NAS OS is operating, the microprogram cannot be replaced by the update installation.	Replace the firmware after stopping the NAS OS.	–
5	EA 1F	Because the NAS OS is operating, the command with the reboot of the Control Unit cannot be executed.	Execute the operation again after stopping all NAS OS.	–

*1 : In the case where WAR = 1 in the Mode Select command when reporting the sense code to a host, Sense key: 4/ Code: "F8 04_H" are also reported.

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Sense key	Sense code	Description	Recovery methods	Reference page
5	EA 30	The online ENC firmware downloading or online ENC firmware replacement cannot be executed because of the loop trouble or the Single mode.	Execute the online ENC firmware downloading or online ENC firmware replacement after the loop trouble is solved.	–
5	EA 31	The command cannot be executed because the online ENC firmware replacement is in progress.	Execute the command after the online ENC firmware replacement is completed.	–
5	EA 32	The online ENC firmware downloading cannot be done.	Execute the online ENC firmware downloading again.	–
5	EA 33	A revision check error of the online ENC firmware downloading occurred.	Check the revision of the ENC firmware again and re-execute the online ENC firmware downloading.	–
5	EA 34	A sum check error of the online ENC firmware downloading occurred.	Check the ENC firmware again and re-execute the online ENC firmware downloading.	–
5	EA 35	The online ENC firmware replacement cannot be made because the online ENC firmware downloading has not been done yet.	Make the online firmware replacement after executing the online ENC firmware downloading.	–
5	EA 36	The parameter of the online ENC firmware replacement is incorrect.	Make the online ENC firmware replacement again.	–
5	EA 40	Since the automatic ENC firmware download function is enabled, the command cannot be executed.	Disable the option and execute the command again.	–
5	EA 41	Since the automatic ENC firmware download is executing, the command cannot be executed.	Execute the command at the time of the automatic download.	–
5	EA 42	The command cannot be executed because the status of the backend path has an abnormal part in the path or the diagnosis is being executed.	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting “7.3 Collecting Simple Trace” (TRBL 07-0040)
5	EA 43	It cannot be executed because the CTL is being blocked.		
5	EA 44	It cannot be executed because the ENC is being blocked.		
5	EA 45	It cannot be executed because it is in the single mode.		
5	EA 46	The ENC firmware revision check is NG.		
5	EA 47	The cross call firmware replacement cannot be executed because the firmware is not allowed for the cross call firmware replacement.		
5	EA 48	The cross call firmware replacement cannot be executed because a backend path failure occurs.		
5	EA 49	When replacing the firmware with the subsystem power turned on, the firmware cannot be replaced because the load of CPU (host I/O) is high.	Execute the firmware replacement again in the status where the load of host I/O is low.	–
5	EB 10	The information on the traceability cannot be set.	–	–

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Sense key	Sense code	Description	Recovery methods	Reference page
4	F4 00	The cache module was blocked because a Cache memory error occurred.	Replace the Cache Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
4	F6 10	A Disk Drive emerged in which the number of recovered mechanical errors exceeded the threshold value(*1).	Replace the Disk Drive.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
4	F6 11	A Disk Drive emerged in which the number of unrecovered mechanical errors exceeded the threshold value(*1).		
4	F6 20	A Disk Drive emerged in which the number of recovered medium errors exceeded the threshold value(*1).		
4	F6 21	A Disk Drive emerged in which the number of unrecovered medium errors exceeded the threshold value(*1).		
4	F6 30	A Disk Drive emerged in which the number of recovered R/W errors exceeded the threshold value(*1).		
4	F6 31	A Disk Drive emerged in which the number of unrecovered R/W errors exceeded the threshold value(*1).		
4	F6 40	A Disk Drive emerged in which the number of recovered interface errors exceeded the threshold value(*1).		
4	F6 41	A Disk Drive emerged in which the number of unrecovered interface errors exceeded the threshold value(*1).		
4	F6 50	A Disk Drive emerged in which the number of recovered hardware errors exceeded the threshold value(*1).		
4	F6 51	A Disk Drive emerged in which the number of unrecovered hardware errors exceeded the threshold value(*1).		
4	F6 70	A Disk Drive emerged in which the number of correctable errors in the online verify exceeded the threshold value(*1).		
4	F6 71	A Disk Drive emerged in which the number of uncorrectable errors in the online verify exceeded the threshold value(*1).		

*1 : In the case where WAR = 1 in the Mode Select command when reporting the sense code to a host, Sense key: 4/ Code: "F8 04_H" are also reported.

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Sense key	Sense code	Description	Recovery methods	Reference page
4	F8 00	Battery failure(*1)	Specify a part to be replaced by checking the log message of the subsystem and replace the Cache Backup Battery.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.2 Replacing Cache Backup Battery" (REP 02-0280)
4	F8 01	Fan failure(*1)	Specify a part to be replaced by checking the log message of the subsystem and replace the FAN Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.3 Replacing FAN Unit" (REP 02-0350)
4	F8 02	DC failure(*1)	Specify a part to be replaced by checking the log message of the subsystem and replace the Power Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.4 Replacing Power Unit" (REP 02-0390)
4	F8 03	Drive failure (regression)(*1)	Specify a part to be replaced by checking the log message of the subsystem and replace the Disk Drive.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
4	F8 04	Pin data over(*1)	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	F8 05	Module blockade(*1)	Specify a part to be replaced by checking the log message of the subsystem and replace the Cache Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
4	F8 07	AC LINE/INBOX failure	Specify a part to be replaced by checking the log message of the subsystem and replace the Power Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.4 Replacing Power Unit" (REP 02-0390)

*1 : In the case where WAR = 1 in the Mode Select command when reporting the sense code to a host, Sense key: 4/ Code: "F8 04_H" are also reported.

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Sense key	Sense code	Description	Recovery methods	Reference page
4	F8 08	UPS failure	Specify a part to be replaced by checking the log message of the subsystem. When the UPS is connected, take a recovery action referring the UPS manual. (If a sense code, "FB F2", is displayed at the same time, take an action following the recovery procedure corresponding to it first.)	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.1 Locations of Replacement Components" (REP 02-0000)
4	F8 09	Battery backup circuit failure	Specify a part to be replaced by checking the log message of the subsystem and replace the Cache Backup Battery.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.2 Replacing Cache Backup Battery" (REP 02-0280)
4	F8 0A	ENC blockade	Specify a part to be replaced by checking the log message of the subsystem and replace the ENC Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
4	F8 0B	Loop failure	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	F8 0C	A path detachment occurred.	Replace the LOOP.	
4	F8 0D	SATA Drive failure (regression)	Specify a part to be replaced by checking the log message of the subsystem and replace the Disk Drive.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
4	F8 0E	SENC failure	Specify a part to be replaced by checking the log message of the subsystem and replace the ENC Unit.	Troubleshooting "4.3 Confirm Log Messages" (TRBL 04-0100) Replacement "2.2.9 Replacing ENC Unit" (REP 02-1020)
4	F8 F0	The controller of another system was blocked(*1).	Get the CTL alarm trace of the detached Control Unit and replace the Control Unit.	Troubleshooting "7.4 Collecting CTL Alarm Trace" (TRBL 07-0090) Refer to Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
4	F8 F1	Host connector failure	Collect Simple trace and request the Technical Support Center to analyze the failure and take a measure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)

*1 : The sense code is reported to the host only when WAR = 1 in the Mode Select command (page35_H).

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Sense key	Sense code	Description	Recovery methods	Reference page
4	F9 00	Battery failure recovery(*1)	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	F9 01	Fan failure recovery(*1)		
4	F9 02	DC failure recovery(*1)		
4	F9 03	Drive failure (regression) recovery(*1)		
4	F9 04	Pin data over recovery(*1)		
4	F9 05	Module blockade release(*1)		
4	F9 06	Own Controller recovery(*1)		
4	F9 07	AC LINE/INBOX recovery	This is not failure. If this error code frequently appears, collect Simple trace and request the Technical Support Center to analyze the failure.	Troubleshooting "7.3 Collecting Simple Trace" (TRBL 07-0040)
4	F9 08	UPS failure recovery		
4	F9 09	Battery backup circuit failure recovery		
4	F9 0A	ENC failure recovery		
4	F9 0B	Loop failure recovery		
4	F9 0C	The path recovered from the detachment.		
4	F9 0D	SATA Drive failure (regression) recovery		
4	F9 0E	SENC failure recovery		
4	F9 F0	Another system Controller failure recovery(*1)		
4	F9 F1	Host connector failure recovery		
B	FD 00	Command execution was disabled because the LU was switched.		
B	FD 01	The command execution was interrupted owing to an LU switching.		

*1 : The sense code is reported to the host only when WAR = 1 in the Mode Select command (page35_H).

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9.2 List of Detail Codes of Sense Code (5/9FFE)

Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
010001	DMER010001: The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.	Retry after waiting for a while.	–
010002	DMER010002: The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.	Retry after waiting for a while.	–
010003	DMER010003: An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.	Retry after waiting for a while.	–
010004	DMER010004: The owner controller of the LUs to be paired is detached. Retry.	Retry.	–
010005	DMER010005: The owner controller of the LUs to be paired is detached. Retry.	Retry.	–
010006	DMER010006: The owner controller of the LUs to be paired is detached. Retry.	Retry.	–
010007	DMER010007: The owner controller of the LUs to be paired is detached. Retry.	Retry.	–
010009	DMER010009: The owner controller of the LUs to be paired is detached. Retry after waiting for a while.	Retry after waiting for a while.	–
01000A	DMER01000A: The owner controller of the LUs to be paired is detached. Retry after waiting for a while.	Retry after waiting for a while.	–
01000B	DMER01000B: The owner controller of the LUs to be paired is detached. Retry after waiting for a while.	Retry after waiting for a while.	–
010019	DMER010019: The pair operation command is a time-out. Retry after waiting for a while.	Retry after waiting for a while.	–
010065	DMER010065: Since the specified P-VOL requires a change of an ownership of LU, it is undergoing the execution of the ownership of LU change. Retry after waiting for a while.	Retry after waiting for a while.	–
010066	DMER010066: Though the specified P-VOL requires a change of an ownership of LU, the controller to be changed is blocked. Retry after waiting for a while.	Retry after waiting for a while.	–
010067	DMER010067: Since the specified P-VOL requires a change of an ownership of LU, the execution of the ownership of LU change has been started. Retry after waiting for a while.	Retry after waiting for a while.	–
011001	DMER011001: The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.	Retry after waiting for a while.	–
011002	DMER011002: The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.	Retry after waiting for a while.	–
011003	DMER011003: An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.	Retry after waiting for a while.	–
012001	DMER012001: The target LU is undergoing the change of an ownership of LU. Retry after waiting for a while.	Retry after waiting for a while.	–
012002	DMER012002: The change of a controller that controls the LU cannot be checked because the directory was blocked in the other controller. Retry after waiting for a while.	Retry after waiting for a while.	–
012003	DMER012003: An instruction to change the controller that controls the LU was issued. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
020000	DMER020000: The pair status of the P-VOL is other than Simplex. Check the pair status of the LU.	Check the pair status of the LU.	–
020001	DMER020001: The status of the P-VOL is other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
020002	DMER020002: The P-VOL is a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
020003	DMER020003: The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
020004	DMER020004: The P-VOL is a command device. Check the status of the LU.	Check the status of the LU.	–
020005	DMER020005: The primary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
020006	DMER020006: Both of the two paths are abnormal. Check the status of the path.	Check the status of the path.	–
020007	DMER020007: The P-VOL has been defined as a SubLU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
020009	DMER020009: There exist maximum number of pairs already. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
02000D	DMER02000D: The P-VOL is in a status other than Split and Failure. Check the pair status of the LU.	Check the pair status of the LU.	–
02000E	DMER02000E: The status of the P-VOL is other than normal and regressive. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
02000F	DMER02000F: The number of the LU to be paired is different. Check the specified LUN.	Check the specified LUN.	–
020010	DMER020010: The primary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
020011	Hitachi Storage Navigator Modular 2 is less than Ver.11.72.		
	DMER020011: Both of the two paths are abnormal. Check the status of the path.	Check the status of the path.	–
	Hitachi Storage Navigator Modular 2 is Ver.11.72 or more.		
	DMER020011: Both of the two paths are abnormal. Check the status of the path. Also, check the S-VOL status. When it is Takeover, the S-VOL is available for I/O.	Check the status of the path. Also, check the S-VOL status. When it is Takeover, the S-VOL is available for I/O.	–
020012	DMER020012: The specified P-VOL is in a status other than Synchronizing and Paired. Check the pair status of the LU.	Check the pair status of the LU.	–
020014	DMER020014: The current Array ID differs from the number that was set initially. Check the Array ID.	Check the Array ID.	–
020016	DMER020016: The number of the LU to be paired is different. Check the specified LUN.	Check the specified LUN.	–
020017	DMER020017: The primary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
020018	DMER020018: The S-VOL pair cancellation instructions to a P-VOL or the pair cancellation instructions to an S-VOL was received. Check the pair status of the LU.	Check the pair status of the LU.	–
020020	DMER020020: The Asynchronous mode is turned on. The Asynchronous mode is not supported.	The Asynchronous mode is not supported.	–
020021	DMER020021: The fence level is STATUS. Make sure of the specified fence level.	Make sure of the specified fence level.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
020023	DMER020023: The P-VOL is a volume of ShadowImage. It is in the Failure status and cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
020024	DMER020024: The P-VOL is undergoing the restoration of ShadowImage pair. Check the pair status of the LU.	Check the pair status of the LU.	–
020025	DMER020025: The P-VOL received an instruction to swap pair. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
020026	DMER020026: The pair status is not Takeover. Check the pair status.	Check the pair status.	–
020027	DMER020027: The S-VOL received an instruction to resynchronize pair. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
020028	DMER020028: The volume is a P-VOL of ShadowImage. It is in the Failure status and cannot accept Read/Write instructions. Place the P-VOL concerned in the Simplex status and create the pair again.	Place the P-VOL concerned in the Simplex status and create the pair again.	–
020029	DMER020029: The volume is a P-VOL of ShadowImage and undergoing a reverse copy. Check the pair status of the LU.	Check the pair status of the LU.	–
02002A	DMER02002A: The P-VOL received an instruction to be taken over. Check the pair status of the LU.	Check the pair status of the LU.	–
02002B	DMER02002B: It is in the Simplex or Synchronizing status. Check the pair status of the LU.	Check the pair status of the LU.	–
02002C	DMER02002C: The secondary sequence number is different from the Array ID. Check the Array ID.	Check the Array ID.	–
02002D	DMER02002D: The S-VOL received an instruction to be taken over. Check the pair status of the LU.	Check the pair status of the LU.	–
02002E	DMER02002E: The pair status of the P-VOL is Simplex or Synchronizing. Check the pair status of the LU.	Check the pair status of the LU.	–
02002F	DMER02002F: The primary sequence number is different from the Array ID. Check the Array ID.	Check the Array ID.	–
020030	DMER020030: The S-VOL received the suspension. Check the pair status of the LU.	Check the pair status of the LU.	–
020031	DMER020031: The capacity is beyond the limits of support. Split the unnecessary pairs.	Split the unnecessary pairs.	–
020032	DMER020032: The P-VOL is configured as RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
020033	DMER020033: The specified LU is an S-VOL of ShadowImage and it is in a pair status other than Split. Check the pair status of the LU.	Check the pair status of the LU.	–
020035	DMER020035: The volume is an S-VOL of ShadowImage and it is in a pair status other than Split. Check the pair status of the LU.	Check the pair status of the LU.	–
020036	DMER020036: The volume is a P-VOL of SnapShot and being restored.	Check the pair status of the LU.	–
020037	DMER020037: The volume is a P-VOL of SnapShot It is in the Failure status and cannot accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	–
020038	DMER020038: The volume is a P-VOL of SnapShot and the mate to it has already been paired by Remote Replication. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
020039	DMER020039: The volume is a V-VOL of SnapShot and it is in a status other than Split of SnapShot. Check the pair status of the LU.	Check the pair status of the LU.	–
02003A	DMER02003A: The volume is a V-VOL of SnapShot. The related P-VOL of SnapShot is being restored or has been placed in the Failure status during a restoration. Check the pair status of the LU.	Check the pair status of the LU.	–
02003B	DMER02003B: The specified LU is comprised in a SnapShot pair and it has already been cascaded with a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
02003C	DMER02003C: The specified LU is comprised in a SnapShot pair and it has already been cascaded with a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
02003D	DMER02003D: The volume is a P-VOL of SnapShot and being restored. Check the pair status of the LU.	Check the pair status of the LU.	–
02003E	DMER02003E: The volume is a P-VOL of SnapShot. It is in the Failure status and cannot accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL related to Simplex and create the pair again.	Change the statuses of all V-VOLs of the P-VOL related to Simplex and create the pair again.	–
02003F	DMER02003F: The volume is a V-VOL of SnapShot and it is in a status other than Split of SnapShot. Check the pair status of the LU.	Check the pair status of the LU.	–
020040	DMER020040: The volume is a P-VOL of SnapShot. It is being restored or in the Failure status and cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
020042	DMER020042: The RAID level differs between the MainLU and SubLU. Check that the RAID level of the specified LU is the same as that expected.	Check that the RAID level of the specified LU is the same as that expected.	–
020043	DMER020043: The number of data disks differs between the MainLU and SubLU. Check that the number of data disks of the specified LU is the same as that expected.	Check that the number of data disks of the specified LU is the same as that expected.	–
020045	DMER020045: The specified LU is a V-VOL of SnapShot. The P-VOL of the related SnapShot pair is a unified LU, whose MainLU and SubLU are different in RAID level. Check that the RAID level of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.	Check that the RAID level of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.	–
020046	DMER020046: The specified LU is a V-VOL of SnapShot. The P-VOL of the related SnapShot pair is a unified LU, whose MainLU and SubLU are different in number of data disks. Check that the number of data disks of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.	Check that the number of data disks of the SnapShot P-VOL corresponding to the specified LU is the same as that expected.	–
020047	DMER020047: Data of the Remote Replication P-VOL is partially destroyed. Issue the SnapShot instruction (to change the status from Paired to Split) to the SnapShot pair again, and then create the pair again.	Issue the SnapShot instruction (to change the status from Paired to Split) to the SnapShot pair again, and then create the pair again.	–
020048	DMER020048: Data of the Remote Replication P-VOL is partially destroyed. Format the specified LU after getting backup data of it. Then restore the backup data.	Format the specified LU after getting backup data of it. Then restore the backup data.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
02004B	DMER02004B: The specified P-VOL is in the Failure (S-VOL Switch) status of ShadowImage. Request service personnel to replace drives that compose the P-VOL. Format them after the replacement then resynchronize the pair.	Request service personnel to replace drives that compose the P-VOL. Format them after the replacement then resynchronize the pair.	–
02004D	DMER02004D: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
02004E	DMER02004E: The DM-LU cannot be specified as P-VOL. Check the status of the LU.	Check the status of the LU.	–
02004F	DMER02004F: Validity of the license expired. Purchase the license.	Purchase the license.	–
020052	DMER020052: The remote SnapShot split request was accepted in the Remote Replication environment. The remote SnapShot split request is not supported in the Remote Replication environment.	The remote SnapShot split request is not supported in the Remote Replication environment.	–
020053	DMER020053: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
020054	DMER020054: The specified P-VOL is undergoing the migration. Check the pair status of the LU.	Check the pair status of the LU.	–
020055	DMER020055: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
020056	DMER020056: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
020057	DMER020057: The specified function is not supported in a remote array. Check the remote array.	Check the remote array.	–
020058	DMER020058: When creating pairs with group is specified, the specified group ID is beyond the limits of supported. Check the specified group ID.	Check the specified group ID.	–
020059	DMER020059: The pair status of the specified S-VOL does not allow you to create a pair. Check the pair status of the specified S-VOL. on both local and remote arrays.	Check the pair status of the specified S-VOL. on both local and remote arrays.	–
02005A	DMER02005A: The command was received in unit of group at the time of resynchronization. Check the specified value.	Check the specified value.	–
02005B	DMER02005B: When the unit of group is specified, the specified S-VOL is not created pair with group. Check the status of the LU.	Check the status of the LU.	–
02005C	DMER02005C: When the unit of group is specified, there is a P-VOL in the same group. Check the group ID.	Check the group ID.	–
02005D	DMER02005D: When the unit of group is specified, there is no pair, which is in the Paired, Split, or Failure status, in the same group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
02005E	DMER02005E: When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.	Check the status of the LU.	–
02005F	DMER02005F: When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.	Check the group ID.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
020060	DMER020060: When the unit of group is specified, there is no pair, which is in the Paired, Split, or Failure status, in the same group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
020061	DMER020061: When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.	Check the status of the LU.	–
020062	DMER020062: When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.	Check the group ID.	–
020063	DMER020063: When the unit of group is specified, there is no pair, which is in the Synchronizing or Paired status, in the same group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
020064	DMER020064: The pair cancellation instructions was executed for the range that was not supported. Check the specified value.	Check the specified value.	–
020065	DMER020065: When the unit of group is specified, the specified P-VOL is not created pair with group. Check the status of the LU.	Check the status of the LU.	–
020066	DMER020066: When the unit of group is specified, there is an S-VOL in the same group. Check the group ID.	Check the group ID.	–
020067	DMER020067: When the unit of group is specified, the specified S-VOL is not created pair with group. Check the status of the LU.	Check the status of the LU.	–
020068	DMER020068: When the unit of group is specified, there is a P-VOL in the same group. Check the group ID.	Check the group ID.	–
020069	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER020069: The specified secondary sequence number does not match with the array serial number. Check the specified command device number.	Check the specified command device number.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER020069: The remote path connected to the specified remote array does not exist. Retry after creating the remote path from the local array to the remote array of the specified remote Array ID.	Retry after creating the remote path from the local array to the remote array of the specified remote Array ID.	–
02006A	DMER02006A: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
02006B	DMER02006B: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
02006C	DMER02006C: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
02006D	DMER02006D: There are other pairs in the group, whose fence level is not the same as the one specified. Confirm the fence level of the pair you are creating.	Confirm the fence level of the pair you are creating.	–
02006E	DMER02006E: There are other pairs in the group, whose P-VOL and S-VOL are swapped. Confirm the array on which you are executing the command.	Confirm the array on which you are executing the command.	–
02006F	DMER02006F: The specified LU is the P-VOL or S-VOL of a ShadowImage pair that the status is Split Pending or Paired Internally Synchronizing. Check the status of the ShadowImage pair.	Check the status of the ShadowImage pair.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
020070	DMER020070: Migration status indicates a status other than Not Started. Check the Migration status.	Check the Migration status.	–
020071	DMER020071: Migration mode indicates Migration. Check the migration mode.	Check the migration mode.	–
020072	DMER020072: The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
020073	DMER020073: An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs in the specified group. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
020074	DMER020074: The specified CTG number has been used into other remote replication pair with the remote array. Retry after specifying the number other than specified CTG number.	Retry after specifying the number other than specified CTG number.	–
020075	DMER020075: The local array can not execute create pair with the specified remote array because the maximum number of the connected arrays is beyond the limits. Retry after deleting the all remote replication pair with the another remote array.	Retry after deleting the all remote replication pair with the another remote array.	–
020076	DMER020076: The local array can not execute create pair with the specified remote array because the maximum number of the connected arrays is beyond the limits. Retry after deleting the all remote replication pair with the another remote array.	Retry after deleting the all remote replication pair with the another remote array.	–
020077	DMER020077: The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
020078	DMER020078: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
020079	DMER020079: The specified P-VOL is a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the ShadowImage pair that the specified P-VOL is part of.	Confirm the ShadowImage pair that the specified P-VOL is part of.	–
02007A	DMER02007A: The specified P-VOL is a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the ShadowImage pair that the specified P-VOL is part of.	Confirm the ShadowImage pair that the specified P-VOL is part of.	–
02007B	DMER02007B: The specified P-VOL is an S-VOL of ShadowImage pair those P-VOL is part of another ShadowImage pair that S-VOL is the LU created in DP pool. Confirm all the S-VOL of ShadowImage pair that shares the P-VOL with the ShadowImage pair that specified P-VOL is part of.	Confirm all the S-VOL of ShadowImage pair that shares the P-VOL with the ShadowImage pair that specified P-VOL is part of.	–
02007C	DMER02007C: Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
02007D	DMER02007D: The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
02007E	DMER02007E: The operation can not be performed due to insufficient capacity of the DP Pool for the specified S-VOL. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
02007F	DMER02007F: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
020080	DMER020080: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
020081	DMER020081: The pair status of the specified S-VOL is Simplex, Synchronizing, or Paired. Check the pair status of the LU.	Check the pair status of the LU.	–
020082	DMER020082: There are no pairs in the specified group whose status is Takeover. Check the pair status.	Check the pair status.	–
02303D	DMER02303D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–
02403D	DMER02403D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030000	DMER030000: The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.	Retry after eliminating pinned data.	–
030001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER030001: The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER030001: The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
030002	DMER030002: The operation to change LU is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030003	DMER030003: There is no partition to which the current partition is to be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
030004	DMER030004: The directory configuration is being changed. Reboot the subsystem.	Reboot the subsystem.	–
030005	DMER030005: The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.	Retry after waiting for a while.	–
030006	DMER030006: The pair status of the P-VOL is other than Simplex, or a V-VOL does not exist. Check the pair status of the LU.	Check the pair status of the LU.	–
030007	DMER030007: The pair status is other than Simplex. Check the pair status of the LU.	Check the pair status of the LU.	–
030008	DMER030008: The specified P-VOL is a V-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
030009	DMER030009: The specified V-VOL is a P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
03000B	DMER03000B: The group ID is out of appropriate range. Make sure of the specified group ID number.	Make sure of the specified group ID number.	–
03000D	DMER03000D: The same MU number was specified within the same P-VOL. Make sure of the specified MU number.	Make sure of the specified MU number.	–
03000E	DMER03000E: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030010	DMER030010: The pair status is other than Split. Check the pair status of the LU.	Check the pair status of the LU.	–
030011	DMER030011: The object LUN is not the same as the expected one. Check the specified LU.	Check the specified LU.	–
030012	DMER030012: The instruction of forced suspension was received. Make sure of the command.	Make sure of the command.	–
030014	DMER030014: The P-VOL is in a status other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
030015	DMER030015: The data pool LU being used is in a status other than normal and regressive. Check the status of the pool LU.	Check the status of the pool LU.	–
030017	DMER030017: The pair attribute of the P-VOL is V-VOL. Check the status of the LU.	Check the status of the LU.	–
030018	DMER030018: The pair attribute of the V-VOL is P-VOL. Check the status of the LU.	Check the status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
03001A	DMER03001A: The same MU number was specified within the same P-VOL. Make sure of the specified MU number.	Make sure of the specified MU number.	–
03001B	DMER03001B: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
03001D	DMER03001D: The object LUN is not the same as the expected one. Check the specified LU.	Check the specified LU.	–
03001E	DMER03001E: The specified V-VOL is not specified to be grouped(Group ID suspension). Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
03001F	DMER03001F: The V-VOL, which is an object of the batch suspension, is in a status other than Paired(Group ID suspension). Check the pair status of the LU.	Check the pair status of the LU.	–
030020	DMER030020: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030021	DMER030021: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030022	DMER030022: The pair status of the V-VOL is illegal. Check the pair status of the LU.	Check the pair status of the LU.	–
030023	DMER030023: The object LUN is not the same as the expected one. Check the specified LU.	Check the specified LU.	–
030028	DMER030028: The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.	Make sure of the specified MU number.	–
030029	DMER030029: The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.	Make sure of the specified MU number.	–
03002A	DMER03002A: The specified MU number is different from that of the specified V-VOL. Make sure of the specified MU number.	Make sure of the specified MU number.	–
03002B	DMER03002B: The pair status was changed to Failure because the process terminated abnormally. Place the pair concerned in the Simplex status once, and then create the pair again.	Place the pair concerned in the Simplex status once, and then create the pair again.	–
03002C	DMER03002C: The specified P-VOL has excess pinned data (at the time of a restoration only). Retry after eliminating pinned data.	Retry after eliminating pinned data.	–
03002E	DMER03002E: Navigator was received by the control information on 8-byte form. Check the environment of Navigator.	Check the environment of Navigator.	–
03002F	DMER03002F: There are 64 or more LUs being restored. Retry after the restoration is completed.	Retry after the restoration is completed.	–
030030	DMER030030: The P-VOL is being restored. Retry after the restoration is completed.	Retry after the restoration is completed.	–
030031	DMER030031: Data of the V-VOL is partially destroyed. Make a backup from the S-VOL to a tape device, etc. and then restore the data to the P-VOL.	Make a backup from the S-VOL to a tape device, etc. and then restore the data to the P-VOL.	–
030032	DMER030032: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030033	DMER030033: Because the process terminated abnormally, the pair status was changed to Failure and the P-VOL became unable to accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030034	DMER030034: Because the process terminated abnormally, the pair status was changed to Failure and the P-VOL became unable to accept Read/Write instructions. Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	Change the statuses of all V-VOLs of the P-VOL concerned to Simplex, and create the pair again.	–
030035	DMER030035: The MU number is other than 0 to 2. Make sure of the specified MU number.	Make sure of the specified MU number.	–
030036	DMER030036: The MU number is other than 0 to 2. Make sure of the specified MU number.	Make sure of the specified MU number.	–
030037	DMER030037: The MU number is other than 0. Make sure of the specified MU number.	Make sure of the specified MU number.	–
030038	DMER030038: The V-VOL is a volume of Remote Replication and in a status other than Simplex. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
030039	DMER030039: The P-VOL of SnapShot is a P-VOL of Remote Replication. It is in the Split status and prohibited from accepting Write instructions. Check the pair status and pair attribute.	Check the pair status and pair attribute.	–
03003A	DMER03003A: The P-VOL of SnapShot is an S-VOL of Remote Replication. It is in the Split status and prohibited from accepting Write instructions. Check the pair status and pair attribute.	Check the pair status and pair attribute.	–
03003B	DMER03003B: The P-VOL of SnapShot is a volume of Remote Replication and it is in a status other than Simplex and Split. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
03003C	DMER03003C: Among the other V-VOLs of SnapShot, there are LUs of Remote Replication in a status other than Split and Failure. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
03003D	DMER03003D: The V-VOL is a volume of Remote Replication and in a status other than Split and Failure. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
03003E	DMER03003E: The V-VOL is a volume of Remote Replication and in a status other than Simplex. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
030044	DMER030044: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
030045	DMER030045: The DM-LU was specified as P-VOL. Check the status of the LU.	Check the status of the LU.	–
030046	DMER030046: The DM-LU was specified as V-VOL. Check the status of the LU.	Check the status of the LU.	–
030047	DMER030047: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
030048	DMER030048: The DM-LU was specified as P-VOL. Check the status of the LU.	Check the status of the LU.	–
030049	DMER030049: The DM-LU was specified as V-VOL. Check the status of the LU.	Check the status of the LU.	–
03004A	DMER03004A: Validity of the license expired. Purchase the license.	Purchase the license.	–
03004B	DMER03004B: Validity of the license expired. Purchase the license.	Purchase the license.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030052	DMER030052: The specified P-VOL is a P-VOL of Remote Replication and the status of the Remote Replication pair is other than Split (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
030053	DMER030053: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and writing to the S-VOL is prohibited (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
030054	DMER030054: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Busy (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
030056	DMER030056: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
030057	DMER030057: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is other than Simplex or Split (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
030058	DMER030058: The P-VOL of this SnapShot is the S-VOL of the Remote Replication pair. It cannot be executed because the status of this Remote Replication pair is Synchronizing or Paired. Check the status of the LU.	Check the status of the LU.	–
030059	DMER030059: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited. Check the status of the LU.	Check the status of the LU.	–
03005A	DMER03005A: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Synchronizing or Paired. Check the status of the LU.	Check the status of the LU.	–
03005B	DMER03005B: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Split and reading/writing from/to the S-VOL is prohibited. Check the status of the LU.	Check the status of the LU.	–
03005C	DMER03005C: The specified P-VOL is an S-VOL of Remote Replication and the status of the Remote Replication pair is Pool Full (at the time of restoration). Check the status of the LU.	Check the status of the LU.	–
03005D	DMER03005D: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
03005E	DMER03005E: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
03005F	DMER03005F: Though the specified P-VOL requires a change of an ownership of LU, it has the pinned data. Contact the service personnel.	Contact the service personnel.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030060	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER030060: Though the specified P-VOL requires a change of an ownership of LU, the segments are insufficient. Check the status of the LU.	Check the status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER030060: The controller that controls the LU that will be P-VOL cannot be changed. Check the status of the LU.	Check the status of the LU.	–
030061	DMER030061: The operation to change LU is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030062	DMER030062: There is no partition to which the current partition to be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
030063	DMER030063: Though the specified P-VOL requires a change of an ownership of LU, the directory structure is being changed. Check the status of the LU.	Check the status of the LU.	–
030064	DMER030064: Though the specified P-VOL requires a change of an ownership of LU, a time-out occurred in the ownership of LU changed. Check the status of the LU.	Check the status of the LU.	–
030065	DMER030065: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down (at the time of restoration). Check the status of the RAID group.	Check the status of the RAID group.	–
030066	DMER030066: The specified POOL ID is beyond the limits of supported. Check the specified POOL ID.	Check the specified POOL ID.	–
030067	DMER030067: There is no POOL LU at the specified POOL ID. Check the specified POOL ID.	Check the specified POOL ID.	–
030068	DMER030068: The specified P-VOL is already paired with one or more V-VOLs, and the specified POOL ID is different from the POOL ID, which is already assigned. Check the specified POOL ID.	Check the specified POOL ID.	–
030069	DMER030069: The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
03006A	DMER03006A: The V-VOL has already created the maximum number of pairs for the specified P-VOL. Check the number of V-VOLs which have paired with the P-VOL.	Check the number of V-VOLs which have paired with the P-VOL.	–
03006B	DMER03006B: The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
03006C	DMER03006C: The specified P-VOL is a Volume Migration pair. Check the status of the LU.	Check the status of the LU.	–
03006D	DMER03006D: The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.	Check the attribute of the LU.	–
03006E	DMER03006E: The specified P-VOL has been defined to the command device. Check the attribute of the LU.	Check the attribute of the LU.	–
03006F	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER03006F: The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER03006F: The capacity of SnapShot pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030070	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER030070: The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER030070: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030071	DMER030071: It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
030072	DMER030072: The specified P-VOL is a MainLU of a unified LU, which includes an LU with a capacity smaller than 1 GB. Check the status of the LU.	Check the status of the LU.	–
030073	DMER030073: The specified P-VOL has been set to the current Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
030074	DMER030074: The specified P-VOL has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
030075	DMER030075: The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved to other directory. Check the status of the LU.	Check the status of the LU.	–
030076	DMER030076: Differential bit map is insufficient. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
030077	DMER030077: When the specified P-VOL is a Remote Replication pair, the specified pool ID and the used pool ID are not the same. Check the specified pool ID.	Check the specified pool ID.	–
030078	DMER030078: LU capacities of the P-VOL and V-VOL are different. Check the capacity of the LU.	Check the capacity of the LU.	–
030079	DMER030079: The specified V-VOL is an S-VOL of a Remote Replication pair.	–	–
03007A	DMER03007A: Among the other V-VOLs of SnapShot, there are S-VOLs of Remote Replication. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
03007B	DMER03007B: An unsupported command option was received. Check the specified value.	Check the specified value.	–
03007C	DMER03007C: The specified POOL ID is beyond the limits of supported. Check the specified POOL ID.	Check the specified POOL ID.	–
03007D	DMER03007D: There is no POOL LU at the specified POOL ID. Check the specified POOL ID.	Check the specified POOL ID.	–
03007E	DMER03007E: An instruction to create a pair was issued to a P-VOL, which has one or more pairs, specifying a POOL ID different from that has been assigned. Check the specified POOL ID.	Check the specified POOL ID.	–
03007F	DMER03007F: The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
030080	DMER030080: The V-VOL has already created the maximum number of pairs for the specified P-VOL. Check the number of V-VOLs which have paired with the P-VOL.	Check the number of V-VOLs which have paired with the P-VOL.	–
030081	DMER030081: The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
030082	DMER030082: The specified P-VOL is a Volume Migration pair. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030083	DMER030083: The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.	Check the attribute of the LU.	–
030084	DMER030084: The specified P-VOL has been defined to the command device. Check the attribute of the LU.	Check the attribute of the LU.	–
030085	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER030085: The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER030085: The capacity of SnapShot pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
030086	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER030086: The maximum supported capacity is beyond the limits. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER030086: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
030087	DMER030087: It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
030088	DMER030088: The specified P-VOL is a MainLU of a unified LU, which includes an LU with a capacity smaller than 1 GB. Check the status of the LU.	Check the status of the LU.	–
030089	DMER030089: The specified P-VOL has been set to the current Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
03008A	DMER03008A: The specified P-VOL has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
03008B	DMER03008B: The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved to other directory. Check the status of the LU.	Check the status of the LU.	–
03008C	DMER03008C: Differential bit map is insufficient. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
03008D	DMER03008D: When the specified P-VOL is a Remote Replication pair, the specified pool ID and the used pool ID are not the same. Check the specified pool ID.	Check the specified pool ID.	–
03008E	DMER03008E: LU capacities of the P-VOL and V-VOL are different. Check the capacity of the LU.	Check the capacity of the LU.	–
03008F	DMER03008F: When creating a pair specifying a group ID, the specified group ID is already used for a ShadowImage pair. Check the specified group ID.	Check the specified group ID.	–
030090	DMER030090: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
030091	DMER030091: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
030092	DMER030092: The P-VOL is in a status other than normal or regressive. Check the status of the LU.	Check the status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
030093	DMER030093: The used data POOL LU is in the status other than normal or regressive. Check the status of the LU.	Check the status of the LU.	–
030094	DMER030094: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
030095	DMER030095: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
030096	DMER030096: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
030097	DMER030097: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
030098	DMER030098: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
030099	DMER030099: There exist maximum number of pairs already. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
03009A	DMER03009A: There exist maximum number of pairs already. Delete the unnecessary pairs.	Delete the unnecessary pairs.	–
03009B	DMER03009B: The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
03009C	DMER03009C: The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
03009D	DMER03009D: The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
03009E	DMER03009E: A P-VOL that belongs to the RAID group that indicates a status other than Normal is included in the specified group. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
03009F	DMER03009F: An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs in the specified group. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0300A0	DMER0300A0: The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
0300A1	DMER0300A1: An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is specified when the pair operation or used by specified pair. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0300A2	DMER0300A2: The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
0300A3	DMER0300A3: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0300A4	DMER0300A4: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0300A5	DMER0300A5: An LU whose DP optimization status is not Normal is included in the pair and its cascade pairs. Check the DP optimization status of the LUs which are included in the pairs.	Check the DP optimization status of the LUs which are included in the pairs.	–
0300A6	DMER0300A6: The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0300A7	DMER0300A7: The operation can not be performed due to insufficient capacity of the DP Pool for the LUs which belong to data Pool. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0300A8	DMER0300A8: Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
0300A9	DMER0300A9: The operation can not be performed due to insufficient capacity of the DP Pool for the P-VOL of a pair in the same group. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0300AA	DMER0300AA: The operation can not be performed due to insufficient capacity of the DP Pool for the LU specified for data pool of a pair in the same group. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0300AB	DMER0300AB: The V-VOL of the specified pair is the P-VOL of a remote replication pair. Retry after deleting the remote replication pair.	Retry after deleting the remote replication pair.	–
0300AC	DMER0300AC: Access attribute has been set to the V-VOL of the specified SnapShot pair. Change the attribute to Read/Write and reset S-VOL Disable. If mode is set, reset it using Command Control Interface. Then, delete the pair.	Change the attribute to Read/Write and reset S-VOL Disable. If mode is set, reset it using Command Control Interface. Then, delete the pair.	–
0300AD	DMER0300AD: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0300AE	DMER0300AE: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0300AF	DMER0300AF: The Full Capacity Mode differs between the P-VOL and data pools. Set the same value for both the Full Capacity Mode of P-VOL and data pools.	Set the same value for both the Full Capacity Mode of P-VOL and data pools.	–
0300B0	DMER0300B0: The Full Capacity Mode differs between the P-VOL and data pools. Set the same value for both the Full Capacity Mode of P-VOL and data pools.	Set the same value for both the Full Capacity Mode of P-VOL and data pools.	–
0300B1	DMER0300B1: The status of the ShadowImage pair cascading with the specified SnapShot pair is illegal. Check the status of the ShadowImage pair.	Check the status of the ShadowImage pair.	–
0300B2	DMER0300B2: The status of a ShadowImage pair cascading with the specified SnapShot pair is Failure where the ShadowImage pair can not accept Read/Write instructions. Check the pair status.	Check the pair status.	–
0300B3	DMER0300B3: The LU ownership of the specified P-VOL is different than the one of the specified data pool. Specify another data pool or check the LU ownership.	Specify another data pool or check the LU ownership.	–
0300B4	DMER0300B4: There is a ShadowImage pair in the specified group cascading with another pair. Check the status of the ShadowImage pair.	Check the status of the ShadowImage pair.	–
0300B5	DMER0300B5: The specified MU# is illegal. Check the MU#.	Check the MU#.	–
0300EF	DMER0300EF: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0300F0	DMER0300F0: The micro program internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
0300FA	DMER0300FA: The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
0300FB	DMER0300FB: The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
031000	DMER031000: The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.	Retry after eliminating pinned data.	–
031001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER031001: The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER031001: The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
031002	DMER031002: The operation to change LU is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
031003	DMER031003: There is no partition to which the current partition is to be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
031004	DMER031004: The directory configuration is being changed. Reboot the subsystem.	Reboot the subsystem.	–
031005	DMER031005: The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.	Retry after waiting for a while.	–
031090	DMER031090: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
031091	DMER031091: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
03109B	DMER03109B: The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
03109C	DMER03109C: The RAID group to which the target LU of changing ownership belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
032000	DMER032000: The controller that controls the LU cannot be changed because pinned data exists. Retry after eliminating pinned data.	Retry after eliminating pinned data.	–
032001	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER032001: The controller that controls the LU cannot be changed because of an insufficient segment size. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER032001: The controller that controls the LU cannot be changed temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
032002	DMER032002: The operation to change LU is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
032003	DMER032003: There is no partition to which the current partition is to be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
032004	DMER032004: The directory configuration is being changed. Reboot the subsystem.	Reboot the subsystem.	–
032005	DMER032005: The change of a controller that controls the LU resulted in a time-out. Retry after waiting for a while.	Retry after waiting for a while.	–
032090	DMER032090: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
032091	DMER032091: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
03209B	DMER03209B: The operation to change LU has become timeout while the controller is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
050001	DMER050001: The P-VOL is being quick formatted. Retry after the quick formatting is completed.	Retry after the quick formatting is completed.	–
050002	DMER050002: The P-VOL or S-VOL (including the unified LU(s)) is being quick formatted. Retry after the quick formatting is completed.	Retry after the quick formatting is completed.	–
050003	DMER050003: The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.	Retry after the formatting is completed.	–
050004	DMER050004: The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.	Retry after the formatting is completed.	–
050005	DMER050005: The P-VOL or S-VOL is being formatted. Retry after the formatting is completed.	Retry after the formatting is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
060001	DMER060001: The S-VOL is in the S-VOL Disable mode. Cancel the access attribute.	Cancel the access attribute.	–
060002	DMER060002: The P-VOL is in the S-VOL Disable mode (at the time of restoration). Check the attribute of the LU.	Check the attribute of the LU.	–
060003	DMER060003: The S-VOL Disable is specified for the P-VOL (at the time of a restoration only). Cancel the access attribute.	Cancel the access attribute.	–
060004	DMER060004: The S-VOL Disable is specified for the S-VOL. Cancel the access attribute.	Cancel the access attribute.	–
060005	DMER060005: Resynchronization is directed to the ShadowImage pair whose S-VOL is specified as S-VOL Disable. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
060006	DMER060006: The S-VOL Disable is specified for the S-VOL (at the time of a restoration only). Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
070001	DMER070001: The P-VOL or S-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
070002	DMER070002: The P-VOL is undergoing the forced restoration by means of parity (at the time of restoration). Retry after the restoration by means of parity is completed.	Retry after the restoration by means of parity is completed.	
070003	DMER070003: The S-VOL is undergoing the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
070011	DMER070011: The P-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
070012	DMER070012: The P-VOL is undergoing the forced restoration by means of parity. Retry after the restoration by means of parity is completed.	Retry after the restoration by means of parity is completed.	–
070021	DMER070021: The P-VOL or data pool LU has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
070022	DMER070022: The P-VOL is undergoing the forced restoration by means of parity (at the time of a restoration). Retry after parity correction is completed.	Retry after parity correction is completed.	–
070023	DMER070023: The data pool LU is undergoing the forced restoration by means of parity. Retry after the restoration by means of parity is completed.	Retry after the restoration by means of parity is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080001	DMER080001: More LUs than supportable ones were specified for LUNs of the P-VOL. Make sure of the number of the specified paired LU.	Make sure of the number of the specified paired LU.	–
080002	DMER080002: More LUs than supportable ones were specified for LUNs of the S-VOL. Make sure of the number of the specified paired LU.	Make sure of the number of the specified paired LU.	–
080003	DMER080003: The P-VOL is in the status other than normal and regressive.	Check the status of the LU.	–
080004	DMER080004: The S-VOL is in the status other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
080005	DMER080005: The primary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
080006	DMER080006: The secondary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
080007	DMER080007: The primary port number is not supported. Check the specified port number.	Check the specified port number.	–
080008	DMER080008: The secondary port number is not supported. Check the specified port number.	Check the specified port number.	–
080009	DMER080009: The P-VOL is a volume of ShadowImage and in the status other than Simplex. Check the pair status of the LU.	Check the pair status of the LU.	–
08000A	DMER08000A: The S-VOL is a volume of ShadowImage and in the status other than Simplex. Check the pair status of the LU.	Check the pair status of the LU.	–
08000B	DMER08000B: The P-VOL is a Sub LU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
08000C	DMER08000C: The S-VOL is a Sub LU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
08000E	DMER08000E: The P-VOL is a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
08000F	DMER08000F: The S-VOL is a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080010	DMER080010: The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080011	DMER080011: The S-VOL is reserved as a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080012	DMER080012: The P-VOL is a command device. Check the status of the LU.	Check the status of the LU.	–
080013	DMER080013: The S-VOL is a command device. Check the status of the LU.	Check the status of the LU.	–
080014	DMER080014: The LUNs of the P-VOL and S-VOL are the same. Check the specified LU.	Check the specified LU.	–
080016	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMER080016: The S-VOL is a volume of ShadowImage and in the pair status other than Split and Failure. Check the pair status.	Check the pair status.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.		
	DMER080016: The specified pair is in a status other than Split, Split Pending and Failure. Check the pair status.	Check the pair status.	–
080017	DMER080017: The LU to be paired with the P-VOL is not an S-VOL. Check the specified LU.	Check the specified LU.	–
080018	DMER080018: The LUN of the P-VOL is higher than 512 (1,023). Make sure of the number of the specified paired LU.	Make sure of the number of the specified paired LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080019	DMER080019: The LUN of the S-VOL is higher than 512 (1,023). Make sure of the number of the specified paired LU.	Make sure of the number of the specified paired LU.	–
08001A	DMER08001A: The primary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
08001B	DMER08001B: The secondary sequence number is different from the own Array ID. Check the Array ID.	Check the Array ID.	–
08001C	DMER08001C: The primary port number is not supported. Check the specified port number.	Check the specified port number.	–
08001D	DMER08001D: The secondary port number is not supported. Check the specified port number.	Check the specified port number.	–
08001F	DMER08001F: The S-VOL is a volume of ShadowImage and in the pair status of Simplex or Failure. Check the pair status of the LU.	Check the pair status of the LU.	–
080020	DMER080020: The LU to be paired with the P-VOL is not an S-VOL. Check the specified LU.	Check the specified LU.	–
080021	DMER080021: The status of the P-VOL is other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
080022	DMER080022: The status of the S-VOL is other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
080023	DMER080023: The P-VOL is a Sub LU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
080024	DMER080024: The S-VOL is a Sub LU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
080026	DMER080026: The P-VOL has been set to the current Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080027	DMER080027: The S-VOL has been set to the current Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080028	DMER080028: The P-VOL is reserved as a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
080029	DMER080029: The S-VOL is reserved as a Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
08002A	DMER08002A: The P-VOL is defined as a command device. Check the status of the LU.	Check the status of the LU.	–
08002B	DMER08002B: The S-VOL is defined as a command device. Check the status of the LU.	Check the status of the LU.	–
08002C	DMER08002C: The LUNs of the P-VOL and S-VOL are the same. Check the specified LU.	Check the specified LU.	–
08002D	DMER08002D: The number of the LU to be paired is different. Check the specified LUN.	Check the specified LUN.	–
08002E	DMER08002E: The number of the LU to be paired is different. Check the specified LUN.	Check the specified LUN.	–
08002F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMER08002F: The pair status of the P-VOL/S-VOL is other than Simplex, Paired, and Synchronizing. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.		
	DMER08002F: The pair status of the P-VOL/S-VOL is other than Simplex, Paired, Paired Internally Synchronizing and Synchronizing. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080030	DMER080030: The LUN of the P-VOL is beyond the limits of support. Check the specified LUN.	Check the specified LUN.	–
080031	DMER080031: The LUN of the S-VOL is beyond the limits of support. Check the specified LUN. Check the specified LUN.	Check the specified LUN.	–
080032	DMER080032: The pair attribute of the LU specified for a P-VOL is not a P-VOL. Check the specified LUN.	Check the specified LUN.	–
080033	DMER080033: The number of the LU to be paired is different. Check the specified LUN.	Check the specified LUN.	–
080034	DMER080034: The primary sequence number is different from the Array ID. Check the specified primary sequence number.	Check the specified primary sequence number.	–
080035	DMER080035: The secondary sequence number is different from the Array ID. Check the specified secondary sequence number.	Check the specified secondary sequence number.	–
080036	DMER080036: The primary port number is beyond the limits of support. Check the specified primary port number.	Check the specified primary port number.	–
080037	DMER080037: The secondary port number is beyond the limits of support. Check the specified secondary port number.	Check the specified secondary port number.	–
080038	DMER080038: A pair in the Failure (S-VOL Switch) status received an instruction to restore. Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.	Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.	–
080039	DMER080039: The specified pair is in the Failure (S-VOL Switch) status. Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement and then resynchronize them.	Request that service personnel replace the drives that compose the P-VOL. Format them after the replacement and then resynchronize them.	–
08003A	DMER08003A: The pair in the Failure (S-VOL Switch) status is undergoing resynchronization. Wait until the resynchronization is completed.	Wait until the resynchronization is completed.	–
08003B	DMER08003B: The pair in the Failure (S-VOL Switch) status is undergoing resynchronization. Wait until the resynchronization is completed.	Wait until the resynchronization is completed.	–
08003C	DMER08003C: The group ID is out of appropriate range. Make sure of the specified group ID number.	Make sure of the specified group ID number.	–
08003D	DMER08003D: The number of pairs having the same group ID exceeded 32. Make sure of the specified group ID number.	Make sure of the specified group ID number.	–
08003E	DMER08003E: The specified P-VOL/S-VOL is not specified to be grouped(Group ID suspension). Check the pair status of the LU.	Check the pair status of the LU.	–
08003F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMER08003F: The P-VOL/S-VOL, which is the object of the batch suspension, is in a status other than Paired(Group ID suspension). Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.		
	DMER08003F: A pair that is in a status other than Paired or Paired Internally Synchronizing is included in the specified group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
080046	DMER080046: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
080047	DMER080047: The DM-LU was specified as P-VOL. Check the status of the LU.	Check the status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080048	DMER080048: The DM-LU was specified as S-VOL. Check the status of the LU.	Check the status of the LU.	–
08004B	DMER08004B: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
08004C	DMER08004C: The DM-LU was specified as P-VOL. Check the status of the LU.	Check the status of the LU.	–
08004D	DMER08004D: The DM-LU was specified as S-VOL. Check the status of the LU.	Check the status of the LU.	–
08004E	DMER08004E: Validity of the license expired. Purchase the license.	Purchase the license.	–
08004F	DMER08004F: Validity of the license expired. Purchase the license.	Purchase the license.	–
080050	DMER080050: An LU, for which a change of the cache partition(s) had been reserved, was specified as a P-VOL. Check the status of the LU.	Check the status of the LU.	–
080051	DMER080051: An LU, for which a change of the cache partition(s) had been reserved, was specified as an S-VOL. Check the status of the LU.	Check the status of the LU.	–
080052	DMER080052: An LU, for which a change of the cache partition(s) had been reserved, was specified as a P-VOL. Check the status of the LU.	Check the status of the LU.	–
080053	DMER080053: An LU, for which a change of the cache partition(s) had been reserved, was specified as an S-VOL. Check the status of the LU.	Check the status of the LU.	–
08005E	DMER08005E: The specified P-VOL is a Remote Replication pair. Check the status of the LU.	Check the status of the LU.	–
08005F	DMER08005F: The specified S-VOL is a Remote Replication pair. Check the status of the LU.	Check the status of the LU.	–
080060	DMER080060: The specified P-VOL is a Remote Replication pair. Check the status of the LU.	Check the status of the LU.	–
080061	DMER080061: The specified S-VOL is a Remote Replication pair. Check the status of the LU.	Check the status of the LU.	–
080064	DMER080064: The specified MU# is used within the specified P-VOL. Check the specified MU number.	Check the specified MU number.	–
080065	DMER080065: One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
080066	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER080066: One or more volumes of special Failure are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER080066: One or more volumes of Failure(S-VOL Switch) are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
080067	DMER080067: One or more Failure pairs that are not readable/writable (Failure transition due to a failure during restoration) under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080068	DMER080068: The group ID overlaps within the specified P-VOL at the time of creating the pair of which the group is specified. Make sure of the specified group ID number.	Make sure of the specified group ID number.	–
080069	DMER080069: The pair attribute of the specified P-VOL is not a P-VOL or the pair attribute of the specified S-VOL is not an S-VOL. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
08006A	DMER08006A: The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.	Check the specified MU number.	–
08006B	DMER08006B: One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
08006C	DMER08006C: One or more Failure pairs that are not readable/writable (Failure transition due to a failure during the restoration) under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
08006D	DMER08006D: The pair attribute of the specified P-VOL is not a P-VOL or the pair attribute of the specified S-VOL is not an S-VOL. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
08006E	DMER08006E: The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.	Check the specified MU number.	–
08006F	DMER08006F: The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.	Check the specified MU number.	–
080070	DMER080070: The specified MU# is used within the specified P-VOL. Check the specified MU number.	Check the specified MU number.	–
080071	DMER080071: One or more volumes of Paired/Synchronizing/Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
080072	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER080072: One or more volumes of special Failure are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER080072: One or more volumes of Failure(S-VOL Switch) are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
080073	DMER080073: One or more Failure pairs that are not readable/writable (Failure transition due to a failure during the restoration) under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
080074	DMER080074: The specified MU# and the MU# of the specified S-VOL are mismatched. Check the specified MU number.	Check the specified MU number.	–
080075	DMER080075: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
080077	DMER080077: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
080078	DMER080078: The specified S-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
080079	DMER080079: The specified S-VOL is undergoing the migration and its status is Split or Failure. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080080	DMER080080: The specified S-VOL is undergoing the migration and its status is Synchronizing or Split. Check the pair status of the LU.	Check the pair status of the LU.	–
080081	DMER080081: The specified P-VOL is the reserved LU. Check the pair status of the LU.	Check the pair status of the LU.	–
080082	DMER080082: The specified S-VOL is the reserved LU. Check the pair status of the LU.	Check the pair status of the LU.	–
080083	DMER080083: The specified S-VOL is undergoing the migration and its status is Synchronizing. Check the pair status of the LU.	Check the pair status of the LU.	–
080084	DMER080084: The specified volume is undergoing the migration. Check the pair status of the LU.	Check the pair status of the LU.	–
080085	DMER080085: The specified P-VOL is undergoing the migration. Check the pair status of the LU.	Check the pair status of the LU.	–
080086	DMER080086: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
080087	DMER080087: The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
080088	DMER080088: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
080089	DMER080089: The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
08008A	DMER08008A: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
08008B	DMER08008B: The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
08008C	DMER08008C: When creating a pair specifying a group ID, the specified group ID is already used for a SnapShot pair. Check the specified group ID.	Check the specified group ID.	–
08008D	DMER08008D: The S-VOL is a volume of Remote Replication and in a status other than Split and Failure. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
08008E	DMER08008E: The S-VOL is a volume of another Remote Replication pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
08008F	DMER08008F: An unsupported command option was received. Check the specified value.	Check the specified value.	–
080090	DMER080090: The specified P-VOL has been set to a ShadowImage S-VOL. Check the status of the LU.	Check the status of the LU.	–
080091	DMER080091: The specified P-VOL has been set to a ShadowImage S-VOL. Check the status of the LU.	Check the status of the LU.	–
080092	DMER080092: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080093	DMER080093: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
080094	DMER080094: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
080095	DMER080095: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
080096	DMER080096: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
080097	DMER080097: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
080098	DMER080098: An invalid array ID is received when INQUIRY serial number conversion mode is on in the host group where a command device is mapped. Check the type of the remote array.	Check the type of the remote array.	–
080099	DMER080099: An invalid array ID is received when INQUIRY serial number conversion mode is on in the host group where a command device is mapped. Check the type of the remote array.	Check the type of the remote array.	–
08009A	DMER08009A: The Migration status is other than unexecuted. Check the Migration status.	Check the Migration status.	–
08009B	DMER08009B: One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
08009C	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.		
	DMER08009C: The P-VOL or the S-VOL of the specified pair is a volume of another Remote Replication pair. Check the status of the LU.	Check the status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.		
	DMER08009C: The S-VOL of the specified pair is a part of another Remote Replication pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
08009D	DMER08009D: One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
08009E	DMER08009E: The specified pair is in the Split Pending status. Retry after the status becomes Split.	Retry after the status becomes Split.	–
08009F	DMER08009F: A pair in the Failure (S-VOL Switch) status received an instruction to resynchronize with Quick mode. Request that service personnel to replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.	Request that service personnel to replace the drives that compose the P-VOL. Format them after the replacement then resynchronize them.	–
0800A0	DMER0800A0: One or more Failure pairs that are not readable/writable under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800A1	DMER0800A1: The capacity is beyond the limits of support. Split the unnecessary pairs.	Split the unnecessary pairs.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0800A2	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.		
	DMER0800A2: The P-VOL or the S-VOL of the specified pair has been cascaded with a Remote Replication pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.		
	DMER0800A2: The S-VOL of the specified pair is a part of another Remote Replication pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
0800A3	DMER0800A3: The P-VOL or the S-VOL has not undergone the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
0800A4	DMER0800A4: The S-VOL is undergoing the forced restoration by means of parity. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
0800A5	DMER0800A5: The disk drives that configure a RAID group to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
0800A6	DMER0800A6: The disk drives that configure a RAID group to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
0800A7	DMER0800A7: A pair that is in a status other than Paired, Paired Internally Synchronizing or Synchronizing is included in the specified group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
0800A8	DMER0800A8: A pair that shares the P-VOL with another pair that is in Failure status that are not readable/writable is included in the specified group. Check the pair status of LU in the group.	Check the pair status of LU in the group.	–
0800A9	DMER0800A9: The capacity is beyond the limits of support. Split the unnecessary pairs.	Split the unnecessary pairs.	–
0800AA	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.		
	DMER0800AA: A pair that the P-VOL or the S-VOL has been cascaded with a Remote Replication pair is included in the specified group. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.		
	DMER0800AA: A pair that the S-VOL has been cascaded with a Remote Replication pair is included in the specified group. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
0800AB	DMER0800AB: A pair that the P-VOL or the S-VOL has not undergone the forced restoration by means of parity is included in the specified group. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
0800AC	DMER0800AC: A pair that the S-VOL is undergoing the forced restoration by means of parity is included in the specified group. Retry after making the restoration by means of parity.	Retry after making the restoration by means of parity.	–
0800AD	DMER0800AD: A pair that the P-VOL belongs a RAID group configured by the disk drives that have been spun down is in the specified group. Check the status of the RAID group.	Check the status of the RAID group.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0800AE	DMER0800AE: A pair that the S-VOL belongs a RAID group configured by the disk drives that have been spun down is in the specified group. Check the status of the RAID group.	Check the status of the RAID group.	–
0800AF	DMER0800AF: One or more volumes of Split Pending/Paired Internally Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800B0	DMER0800B0: The P-VOL or the S-VOL of the specified pair is a volume of another Remote Replication pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–
0800B1	DMER0800B1: The specified pair is in the Split Pending status. Check the pair status of the LU.	Check the pair status of the LU.	–
0800B2	DMER0800B2: The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
0800B3	DMER0800B3: An LU that belongs to the RAID group that indicates a status other than Normal is included in the specified group. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0800B4	DMER0800B4: The specified pair is in a status other than Split and Failure. Check the pair status.	Check the pair status.	–
0800B5	DMER0800B5: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0800B6	DMER0800B6: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0800B7	DMER0800B7: The LU that was specified as S-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0800B8	DMER0800B8: The LU that was specified as S-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0800B9	DMER0800B9: DP pool is insufficient. Confirm the capacity of DP pool.	Confirm the capacity of DP pool.	–
0800BA	DMER0800BA: DP pool is insufficient. Confirm the capacity of DP pool.	Confirm the capacity of DP pool.	–
0800BB	DMER0800BB: DP pool is insufficient. Confirm the capacity of DP pool.	Confirm the capacity of DP pool.	–
0800BC	DMER0800BC: DP pool is insufficient. Confirm the capacity of DP pool.	Confirm the capacity of DP pool.	–
0800BD	DMER0800BD: The specified P-VOL is a volume of Remote Replication pair and the specified S-VOL is an LU created in DP pool. Specify an LU other than the LU created in DP pool to S-VOL.	Specify an LU other than the LU created in DP pool to S-VOL.	–
0800BE	DMER0800BE: The specified P-VOL is a volume of Remote Replication pair and the specified S-VOL is an LU created in DP pool. Specify an LU other than the LU created in DP pool to S-VOL.	Specify an LU other than the LU created in DP pool to S-VOL.	–
0800BF	DMER0800BF: The specified S-VOL is an LU created in DP pool and the specified P-VOL already has a pair whose S-VOL is a part of remote replication pair. Retry after deleting the remote replication pair.	Retry after deleting the remote replication pair.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0800C0	DMER0800C0: The specified S-VOL is an LU created in DP pool and the specified P-VOL already has a pair whose S-VOL is a part of remote replication pair. Retry after deleting the remote replication pair.	Retry after deleting the remote replication pair.	–
0800C1	DMER0800C1: The DP optimization status of the specified P-VOL is not Normal. Check the DP optimization status of the P-VOL.	Check the DP optimization status of the P-VOL.	–
0800C2	DMER0800C2: The DP optimization status of the specified S-VOL is not Normal. Check the DP optimization status of the S-VOL.	Check the DP optimization status of the S-VOL.	–
0800C3	DMER0800C3: The DP optimization status of the specified P-VOL is not Normal. Check the DP optimization status of the P-VOL.	Check the DP optimization status of the P-VOL.	–
0800C4	DMER0800C4: The DP optimization status of the specified S-VOL is not Normal. Check the DP optimization status of the S-VOL.	Check the DP optimization status of the S-VOL.	–
0800C5	DMER0800C5: Management information regarding DP is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
0800C6	DMER0800C6: Management information regarding DP is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
0800C7	DMER0800C7: Management information regarding DP is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
0800C8	DMER0800C8: Management information regarding DP is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–
0800C9	DMER0800C9: The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.	Check the capacity of the DP pool.	–
0800CA	DMER0800CA: The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.	Check the capacity of the DP pool.	–
0800CB	DMER0800CB: The specified S-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.	Check the capacity of the DP pool.	–
0800CC	DMER0800CC: The specified P-VOL can not be read due to insufficient capacity of its DP pool. Check the capacity of the DP pool.	Check the capacity of the DP pool.	–
0800CD	DMER0800CD: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0800CE	DMER0800CE: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0800CF	DMER0800CF: One or more volumes of Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0800D0	DMER0800D0: Three or more volumes of Paired/Synchronizing/Paired Internally Synchronizing/Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D1	DMER0800D1: One or more volumes of Reverse Synchronizing are under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D2	DMER0800D2: Three or more volumes of Paired/Synchronizing/Paired Internally Synchronizing/Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D3	DMER0800D3: Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D4	DMER0800D4: Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D5	DMER0800D5: Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D6	DMER0800D6: Two or more volumes of Split Pending cannot exist under the specified P-VOL. Check the pair status of the LU.	Check the pair status of the LU.	–
0800D7	DMER0800D7: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.	–
0800D8	DMER0800D8: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL.	–
0800D9	DMER0800D9: The status of the SnapShot pair cascading with the specified ShadowImage pair is illegal. Check the status of the SnapShot pair.	Check the status of the SnapShot pair.	–
0800DA	DMER0800DA: The status of a SnapShot pair cascading with the specified ShadowImage pair is Failure where the SnapShot pair can not accept Read/Write instructions. Check the pair status.	Check the pair status.	–
0800DB	DMER0800DB: The specified LU is a V-VOL. Check the LU.	Check the LU.	–
0800DC	DMER0800DC: The specified S-VOL is the P-VOL of a SnapShot pair. Check the pair status.	Check the pair status.	–
0800DD	DMER0800DD: The specified P-VOL already has the maximum number of S-VOLs. Check the number of S-VOL paired with the P-VOL.	Check the number of S-VOL paired with the P-VOL.	–
0800DE	DMER0800DE: Any pair operations can not be performed due to the status of the Remote Replication pair cascading with the S-VOL of the SnapShot pair that shared the P-VOL of the specified ShadowImage pair. Check the status of the Remote Replication pair.	Check the status of the Remote Replication pair.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090001	DMER090001: The specified P-VOL is normal or other than regressed. Check the status of the LU.	Check the status of the LU.	–
090002	DMER090002: The specified P-VOL has been set to the current Cache Residency LU. Check the attribute of the LU.	Check the attribute of the LU.	–
090003	DMER090003: The specified P-VOL has been set to the reserved Cache Residency LU. Check the attribute of the LU.	Check the attribute of the LU.	–
090004	DMER090004: The specified P-VOL has been defined to the command device. Check the attribute of the LU.	Check the attribute of the LU.	–
090005	DMER090005: The accepted sequence number is different from the serial number. Check the serial number.	Check the serial number.	–
090006	DMER090006: Both of the two paths are abnormal. Check the status of the path.	Check the status of the path.	–
090007	DMER090007: The specified P-VOL is a Sub LU of a unified LU. Check the attribute of the LU.	Check the attribute of the LU.	–
090009	DMER090009: The status of the Remote Replication pair of the specified P-VOL is other than Simplex. Check the pair status of the LU.	Check the pair status of the LU.	–
09000A	DMER09000A: The specified P-VOL is a ShadowImage pair. Check the attribute of the LU.	Check the attribute of the LU.	–
09000B	DMER09000B: The specified P-VOL is a SnapShot V-VOL. Check the attribute of the LU.	Check the attribute of the LU.	–
09000C	DMER09000C: The group ID is beyond the limits (more than 16) of support. Check the group ID.	Check the group ID.	–
09000D	DMER09000D: The pair status of the specified P-VOL is other than Split or Failure. Check the pair status of the LU.	Check the pair status of the LU.	–
09000E	DMER09000E: The specified P-VOL status is normal or other than regressed. Check the status of the LU.	Check the status of the LU.	–
09000F	DMER09000F: The specified S-VOL is not a pair target LUN. Check the LUN of the S-VOL.	Check the LUN of the S-VOL.	–
090010	DMER090010: The accepted sequence number is different from the serial number. Check the serial number.	Check the serial number.	–
090011	DMER090011: Both of the two paths are abnormal. Check the status of the path.	Check the status of the path.	–
090012	DMER090012: When the unit of pair is specified, the pair status of the specified P-VOL is other than Synchronizing and Paired. Check the pair status of the LU.	Check the pair status of the LU.	–
090013	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER090013: The capacity is beyond the limits of support. Split the unnecessary pairs.	Split the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER090013: The capacity of Remote Replication pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
090014	DMER090014: The accepted sequence number is different from the serial number. Check the serial number.	Check the serial number.	–
090015	DMER090015: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090016	DMER090016: When the unit of pair is specified, the specified S-VOL is not a pair target LUN. Check the LUN of the specified S-VOL.	Check the LUN of the specified S-VOL.	–
090017	DMER090017: The accepted sequence number is different from the serial number. Check the serial number.	Check the serial number.	–
090018	DMER090018: The S-VOL pair cancellation instructions was issued to the P-VOL or pair cancellation instructions was issued to the S-VOL. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
090019	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER090019: The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.		
	DMER090019: This operation cannot be executed due to lack of resources. Retry after waiting for a while.	Retry after waiting for a while.	–
090020	DMER090020: The pool LU is not defined. Define the pool LU and retry.	Define the pool LU and retry.	–
090021	DMER090021: The specified fence level is STATUS. Make sure of the specified fence level.	Make sure of the specified fence level.	–
090022	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER090022: The capacity is beyond the limits of support. Split the unnecessary pairs.	Split the unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER090022: The capacity of Remote Replication pair is beyond the limits. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
090023	DMER090023: The internal pair status of the specified P-VOL is [under pair deletion]. Check the pair status of the LU.	Check the pair status of the LU.	–
090025	DMER090025: The forced blockade of a P-VOL was accepted. The forced blockade of a P-VOL is not supported.	The forced blockade of a P-VOL is not supported.	–
090026	DMER090026: The type of the side file release is other than ordinary splitting. Check the specified value.	Check the specified value.	–
090027	DMER090027: The S-VOL received an instruction. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
090029	DMER090029: The S-VOL received an instruction. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
09002A	DMER09002A: The P-VOL received an instruction. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
09002B	DMER09002B: When the unit of pair is specified, the pair status of the specified S-VOL is Simplex or Synchronizing. Check the pair status of the LU.	Check the pair status of the LU.	–
09002C	DMER09002C: The accepted sequence number is different from the serial number. Check the serial number.	Check the serial number.	–
09002D	DMER09002D: The specified MU number is beyond the limits (0 to13) of support. Check the specified MU number.	Check the specified MU number.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090030	DMER090030: The S-VOL received an instruction. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
090032	DMER090032: The RAID group, to which the specified P-VOL belongs, is RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
090036	DMER090036: The specified P-VOL is a SnapShot P-VOL and it is being restored. Check the pair status of the SnapShot.	Check the pair status of the SnapShot.	–
090037	DMER090037: The specified P-VOL is a SnapShot P-VOL and its status was changed to Failure during restoration. Check the pair status of the SnapShot.	Check the pair status of the SnapShot.	–
090038	DMER090038: There is no vacancy in the generation bits. Retry after waiting for a while.	Retry after waiting for a while.	–
090039	DMER090039: There is one or more pair(s) in the status of [under execution of remote SnapShot split] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.	Check the pair status of each LU in the target group. It is required to wait until the process is completed.	–
09003A	DMER09003A: There is one or more pair(s) in the status of [under pair splitting] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.	Check the pair status of each LU in the target group. It is required to wait until the process is completed.	–
09003C	DMER09003C: There is one or more pair(s) in the status of [under pair deletion] in the target group. Check the pair status of each LU in the target group. It is required to wait until the process is completed.	Check the pair status of each LU in the target group. It is required to wait until the process is completed.	–
09003D	DMER09003D: The specified P-VOL is a SnapShot P-VOL and it is being restored. Check the pair status of the SnapShot.	Check the pair status of the SnapShot.	–
09003E	DMER09003E: The specified P-VOL is a SnapShot P-VOL and its status was changed to Failure during restoration. Check the pair status of the SnapShot.	Check the pair status of the SnapShot.	–
09003F	DMER09003F: There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090042	DMER090042: When the unit of pair is specified, the pair status of the specified pair is Split (no reading/writing allowed). Check the pair status.	Check the pair status.	–
090044	DMER090044: When the unit of group is specified, there is one or more pair(s) placed in the Split status (no reading/writing allowed) in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090045	DMER090045: When the unit of group is specified, there is no pair that is in the Paired, Split, or Failure status in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090046	DMER090046: When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair splitting]. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
090047	DMER090047: The specified P-VOL has the incomplete DDCB. Check the status of the LU.	Check the status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090048	DMER090048: The specified P-VOL has unwritten data. Contact the service personnel.	Contact the service personnel.	–
090049	DMER090049: When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair deletion]. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
09004B	DMER09004B: When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under execution of remote SnapShot split]. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
09004C	DMER09004C: When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair splitting] in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
09004D	DMER09004D: The DM-LU is not defined. Define the DM-LU.	Define the DM-LU.	–
09004E	DMER09004E: The specified P-VOL has been set to the DM-LU. Check the attribute of the LU.	Check the attribute of the LU.	–
09004F	DMER09004F: Validity of the license expired. Purchase the license.	Purchase the license.	–
090050	DMER090050: When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair deletion] in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090052	DMER090052: When the unit of group is specified, there is one or more pair(s) that is in the status of [under execution of remote SnapShot split] in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090053	DMER090053: When the unit of group is specified, there is no pair, which is in the Synchronizing or Paired status, in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090054	DMER090054: The pair cancellation instructions was executed for the range that was not supported. Check the specified value.	Check the specified value.	–
090055	DMER090055: When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under pair splitting]. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
090057	DMER090057: When the unit of pair is specified, the internal status of the pair of the specified P-VOL is [under execution of remote SnapShot split]. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
090059	DMER090059: When the unit of pair is specified, the internal status of the pair of the specified S-VOL is Busy. Check the pair status of the LU.	Check the pair status of the LU.	–
09005A	DMER09005A: When the unit of group is specified, there is one or more pair(s) that is in the status of [under pair splitting] in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
09005C	DMER09005C: When the unit of group is specified, there is one or more pair(s) that is in the status of [under execution of remote SnapShot split] in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
09005E	DMER09005E: When the unit of group is specified, there is one or more pair(s) placed in the Busy status in the group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090068	DMER090068: There is the S-VOL pair whose direction is not correct in the indicated group. Check the group ID.	Check the group ID.	–
090069	DMER090069: The partition to which the LU belongs is being changed to the other directory. Retry after waiting for a while.	Retry after waiting for a while.	–
09006B	DMER09006B: There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
09006C	DMER09006C: The subsystem has not been rebooted after the Remote Replication option was unlocked. Reboot the subsystem.	Reboot the subsystem.	–
09006D	DMER09006D: The specified P-VOL is a unified LU including an LU with a capacity less than 1 GB. Check the attribute of the LU.	Check the attribute of the LU.	–
09006E	DMER09006E: The specified P-VOL is the pool LU. Check the attribute of the LU.	Check the attribute of the LU.	–
09006F	DMER09006F: The pool LU status is normal or other than regressed. Check the status of the pool LU.	Check the status of the pool LU.	–
090070	DMER090070: The pool LU is undergoing the forced parity correction. Check the status of the pool LU.	Check the status of the pool LU.	–
090071	DMER090071: It is exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Delete unnecessary pairs.	Delete unnecessary pairs.	–
090072	DMER090072: The remote SnapShot split request was accepted. Check the firmware version.	Check the firmware version.	–
090073	DMER090073: The pair status of the specified S-VOL does not allow you to create a pair. Check the pair status of the specified S-VOL on both local and remote arrays.	Check the pair status of the specified S-VOL on both local and remote arrays.	–
090074	DMER090074: The suspension command was accepted with a specification of the unit of pair. The specification of the unit of pair is not supported.	The specification of the unit of pair is not supported.	–
090075	DMER090075: The specified P-VOL is a unified LU whose component LUs include an LU for which the format operation is being performed. Check the attribute of the LU.	Check the attribute of the LU.	–
090076	DMER090076: The specified P-VOL is being formatted. Check the attribute of the LU.	Check the attribute of the LU.	–
090077	DMER090077: The state of the forced parity correction for the specified P-VOL is Uncorrected or Uncorrected 2. Check the status of the LU.	Check the status of the LU.	–
090078	DMER090078: The specified P-VOL has not undergone the forced parity correction. Retry it after executing the forced parity correction.	Retry it after executing the forced parity correction.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
09007B	DMER09007B: There is one or more pair(s) in the status of Split or Failure of [under pair deletion] in the target group. Check the pair status of the LU. It is required to wait until the process is completed.	Check the pair status of the LU. It is required to wait until the process is completed.	–
09007C	DMER09007C: The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.	Retry after waiting for a while.	–
09007D	DMER09007D: The pool LU status is normal or other than regressed. Check the status of the pool LU.	Check the status of the pool LU.	–
09007E	DMER09007E: The pool LU is undergoing the forced parity correction. Retry after waiting for a while.	Retry after waiting for a while.	–
09007F	DMER09007F: There is one or more P-VOL(s), the status of the forced parity correction for which is Uncorrected or Uncorrected 2, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
090080	DMER090080: There is one or more P-VOL(s), status is normal or other than regressed, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
090081	DMER090081: There is one or more Remote Replication P-VOL(s), which is cascaded with a SnapShot P-VOL being restored, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
090082	DMER090082: There is one or more Remote Replication P-VOL(s), which is cascaded with a SnapShot P-VOL that was placed in the Failure status during restoration, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
090083	DMER090083: There is no pair, which is in the Split or Failure status, in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090084	DMER090084: When a pair is created in the new group, the cycle time that has been set is less than [30 x number of groups] seconds. Check the cycle time that has been set.	Check the cycle time that has been set.	–
090085	DMER090085: When the unit of pair is specified, the S-VOL of the target pair has not completed the resynchronization after it accepted the resynchronization command. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
090086	DMER090086: When the unit of group is specified, there is one or more S-VOL(s), which has not completed the resynchronization after it accepted the resynchronization command, in the target group. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
090087	DMER090087: There are one or more pairs in the status of [under pair splitting] or [under pair competing] in the group. Retry after waiting for a while.	Retry after waiting for a while.	–
090088	DMER090088: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
090089	DMER090089: The specified P-VOL is undergoing the migration. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
09008A	DMER09008A: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
09008B	DMER09008B: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
09008C	DMER09008C: There are one or more Remote Replication P-VOLs corresponding to a RAID group that belongs to the group concerned and the disk drives that configure the RAID group have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
09008D	DMER09008D: The primary pool ID is beyond the limits of supported. Check the pool ID.	Check the pool ID.	–
09008E	DMER09008E: The secondary pool ID is beyond the limits of supported. Check the pool ID.	Check the pool ID.	–
09008F	DMER09008F: The specified pool ID differs from the pool ID in use. Check the pool ID.	Check the pool ID.	–
090090	DMER090090: Swap pair has been issued to the Remote Replication pair with AMS500 or AMS1000. The swap command is not supported in this configuration.	The swap command is not supported in this configuration.	–
090091	DMER090091: The Swap operation was received in the P-VOL. Check the pair attribute of the LU.	Check the pair attribute of the LU.	–
090092	DMER090092: The Swap operation was received by specifying the pair unit. Please confirm the operation and try again.	Please confirm the operation and try again.	–
090093	DMER090093: The LU whose pair status is not Takeover exists in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090094	DMER090094: The LU whose pair status is Busy exists in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090095	DMER090095: The LU whose pair status is Takeover and Delete exists in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
090096	DMER090096: The number of the unused bit numbers is insufficient. Retry after waiting for a while.	Retry after waiting for a while.	–
090097	DMER090097: The pool LU status is normal or other than regressed. Check the status of the pool LU.	Check the status of the pool LU.	–
090098	DMER090098: The pool LU is undergoing the forced parity correction. Check the status of the pool LU.	Check the status of the pool LU.	–
090099	DMER090099: There is one or more S-VOL(s), the status of the forced parity correction for which is Uncorrected or Uncorrected 2, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
09009A	DMER09009A: There is one or more S-VOL(s), status is normal or other than regressed, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
09009B	DMER09009B: There is one or more Remote Replication S-VOL(s), which is cascaded with a SnapShot P-VOL being restored, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
09009C	DMER09009C: There is one or more Remote Replication S-VOL(s), which is cascaded with a SnapShot P-VOL that was placed in the Failure status during restoration, in the target group. Check the status of each LU in the target group.	Check the status of each LU in the target group.	–
09009D	DMER09009D: There exists an S-VOL of a Remote Replication pair, the RAID group which belongs to is in Power Saving mode. Check the status of LUs in the group.	Check the status of LUs in the group.	–
09009E	DMER09009E: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
09009F	DMER09009F: The specified secondary sequence number does not match with the remote side subsystem serial number. Check the specified command device number.	Check the specified command device number.	–
0900A0	DMER0900A0: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
0900A1	DMER0900A1: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
0900A2	DMER0900A2: The command cannot execute because the Auto Migration is undergoing. Check the Migration status.	Check the Migration status.	–
0900A3	DMER0900A3: The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
0900A4	DMER0900A4: An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is specified when the pair operation or used by specified pair. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0900A5	DMER0900A5: An LU that belongs to the RAID group that indicates a status other than Normal is included in the group to which the specified pair belongs. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0900A6	DMER0900A6: An LU that belongs to the RAID group that indicates a status other than Normal is included in the data pool that is used by pairs that belong to the same group as the specified pair. Retry after the RAID group status becomes Normal.	Retry after the RAID group status becomes Normal.	–
0900A7	DMER0900A7: The LU created in DP pool was specified as P-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
0900A8	DMER0900A8: The LU that was specified as P-VOL does not exist. Check the specified LUN.	Check the specified LUN.	–
0900A9	DMER0900A9: Management information of Dynamic Provisioning is being updated. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0900AA	DMER0900AA: The operation can not be performed due to insufficient capacity of the DP Pool for the specified P-VOL. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0900AB	DMER0900AB: The operation can not be performed due to insufficient capacity of the DP Pool for the P-VOL of a pair in the same group. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0900AC	DMER0900AC: The operation can not be performed due to insufficient capacity of the DP Pool for the S-VOL of a pair in the same group. Check the capacity of the DP Pool.	Check the capacity of the DP Pool.	–
0900AD	DMER0900AD: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0900AE	DMER0900AE: The process of reconfigure memory is in progress. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
0900AF	DMER0900AF: The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	Set the same value for both the Full Capacity Mode of target LU and data pools.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0A0001	DMER0A0001: The Volume Migration optional feature is invalid. Install the Volume Migration optional feature.	Install the Volume Migration optional feature.	–
0A0002	DMER0A0002: The temporary key of the Volume Migration was expired. Purchase the license.	Purchase the license.	–
0A0003	DMER0A0003: The status of the specified P-VOL is other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
0A0004	DMER0A0004: The status of the specified S-VOL is other than normal and regressive. Check the status of the LU.	Check the status of the LU.	–
0A0005	DMER0A0005: The status of the parity correction of the specified P-VOL is Uncorrected or Uncorrected 2. Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.	Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.	–
0A0006	DMER0A0006: The status of the parity correction of the specified S-VOL is correcting, waiting correction, Uncorrected, or Uncorrected 2. Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.	Skip the parity correction or execute the parity correction, and wait for the completion of the correction. Re-execute it after performing the operation.	–
0A0007	DMER0A0007: The specified P-VOL has created a Volume Migration pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0008	DMER0A0008: The specified S-VOL has created a Volume Migration pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0009	DMER0A0009: The specified P-VOL has created a ShadowImage pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A000A	DMER0A000A: The specified S-VOL has created a ShadowImage pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A000B	DMER0A000B: The specified P-VOL is a command device. Check the status of the LU.	Check the status of the LU.	–
0A000C	DMER0A000C: The specified S-VOL is a command device. Check the status of the LU.	Check the status of the LU.	–
0A000D	DMER0A000D: The specified P-VOL has created a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A000E	DMER0A000E: The specified S-VOL has created a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A000F	DMER0A000F: The specified P-VOL has created a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0010	DMER0A0010: The specified S-VOL has created a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0011	DMER0A0011: The P-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
0A0012	DMER0A0012: The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
0A0013	DMER0A0013: The specified P-VOL has created a SnapShot pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0014	DMER0A0014: The specified S-VOL has created a SnapShot pair. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0015	DMER0A0015: The specified P-VOL is the pool LU. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0A0016	DMER0A0016: The specified S-VOL is the pool LU. Check the pair status of the LU.	Check the pair status of the LU.	–
0A0017	DMER0A0017: The specified P-VOL is being quick formatted. Retry after the quick formatting is completed.	Retry after the quick formatting is completed.	–
0A0018	DMER0A0018: The specified S-VOL is being quick formatted. Retry after the quick formatting is completed.	Retry after the quick formatting is completed.	–
0A0019	DMER0A0019: The specified P-VOL is the DM-LU. Check the status of the LU.	Check the status of the LU.	–
0A001A	DMER0A001A: The specified S-VOL is the DM-LU. Check the status of the LU.	Check the status of the LU.	–
0A001B	DMER0A001B: The DM-LU is not set. Retry after setting the DM-LU.	Retry after setting the DM-LU.	–
0A001C	DMER0A001C: The specified P-VOL has unwritten data. Check the status of the LU.	Check the status of the LU.	–
0A001D	DMER0A001D: The pair cannot be allocated the differential bit map. Split the unnecessary pairs.	Split the unnecessary pairs.	–
0A001E	DMER0A001E: The specified P-VOL is a SubLU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
0A001F	DMER0A001F: The specified S-VOL is a SubLU of a unified LU. Check the status of the LU.	Check the status of the LU.	–
0A0020	DMER0A0020: The size of the specified P-VOL and the S-VOL are not the same. Specify an LU that the same size.	Specify an LU that the same size.	–
0A0021	DMER0A0021: The DIRs in charge of the specified P-VOL and the S-VOL are not the same. Specify an LU that belongs to the same DIR.	Specify an LU that belongs to the same DIR.	–
0A0022	DMER0A0022: The LUNs of the specified P-VOL and S-VOL are the same. Check the specified LUN.	Check the specified LUN.	–
0A0023	DMER0A0023: There exist maximum number of pairs already (included ShadowImage pairs). Split the unnecessary pairs.	Split the unnecessary pairs.	–
0A0024	DMER0A0024: The specified P-VOL is the LU, for which a change of the cache partition(s) had been reserved. Retry after releasing the reserved status.	Retry after releasing the reserved status.	–
0A0025	DMER0A0025: The specified S-VOL is the LU, for which a change of the cache partition(s) had been reserved. Retry after releasing the reserved status.	Retry after releasing the reserved status.	–
0A0026	DMER0A0026: The RAID group of the specified P-VOL and S-VOL are the same. Specify a different RAID group.	Specify a different RAID group.	–
0A0027	DMER0A0027: The specified P-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
0A0028	DMER0A0028: The specified S-VOL is the reserved LU. Check the status of the LU.	Check the status of the LU.	–
0A0029	DMER0A0029: The access level of the specified S-VOL is other than the ordinary one. Check the access revel of the LU.	Check the access revel of the LU.	–
0A002C	DMER0A002C: The specified MU number is 8 or higher. Make sure of the specified MU number.	Make sure of the specified MU number.	–
0A002D	DMER0A002D: The specified primary port number is beyond the limits of support. Check the specified primary port number.	Check the specified primary port number.	–
0A002E	DMER0A002E: The specified secondary port number is beyond the limits of support. Check the specified secondary port number.	Check the specified secondary port number.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0A002F	DMER0A002F: The specified primary sequence number is different from the own serial number. Check the specified primary sequence number.	Check the specified primary sequence number.	–
0A0030	DMER0A0030: The specified secondary sequence number is different from the own serial number. Check the specified secondary sequence number.	Check the specified secondary sequence number.	–
0A0031	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.		
	DMER0A0031: The pair concerned is the one that the instruction to start the migration was issued by Navigator or HiCommand. Check the owner ID of the specified pair.	Check the owner ID of the specified pair.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.20 or more.		
	DMER0A0031: The pair concerned is the one that the instruction to start the migration was issued by Navigator etc. Check the owner ID of the specified pair.	Check the owner ID of the specified pair.	–
0A0032	DMER0A0032: The disk drives that configure a RAID group, to which the specified P-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
0A0033	DMER0A0033: The disk drives that configure a RAID group, to which the specified S-VOL belongs have been spun down. Check the status of the RAID group.	Check the status of the RAID group.	–
0A0034	DMER0A0034: The Migration status is [data is being copied], [data copy fails], or [data copy is completed]. Check the Migration status.	Check the Migration status.	–
0A0035	DMER0A0035: The Migration status is [access path is being switched] or [access path switching fails]. Check the Migration status.	Check the Migration status.	–
0A0036	DMER0A0036: The RAID group to which the specified LU belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
810001	DMER810001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
810002	DMER810002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
810003	DMER810003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
810004	DMER810004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81000A	DMER81000A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81000F	DMER81000F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–
81002C	DMER81002C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81002D	DMER81002D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81002E	DMER81002E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81002F	DMER81002F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
810030	DMER810030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
810031	DMER810031: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
810033	DMER810033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
810034	DMER810034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
810035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER810035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER810035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
810036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER810036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER810036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
810037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER810037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.		
	DMER810037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more, less than 10.00.		
	DMER810037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER810037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
810038	DMER810038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
810039	DMER810039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81003A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81003A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81003A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81003E	DMER81003E: The S-VOL command is receiving a command. Retry after waiting.	Retry after waiting.	–
810042	DMER810042: The capacity is beyond the limits of support. Eliminate unnecessary pairs of the remote array.	Eliminate unnecessary pairs of the remote array.	–
810058	DMER810058: The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.	Contact the service personnel.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
810060	DMER810060: The path of the local subsystem is abnormal. Check the status of the path.	Check the status of the path.	–
810061	DMER810061: The path of the local subsystem is abnormal. Check the status of the path.	Check the status of the path.	–
810062	DMER810062: The path of the local subsystem is abnormal. Check the status of the path.	Check the status of the path.	–
810063	DMER810063: The path of the local subsystem is abnormal. Check the status of the path.	Check the status of the path.	–
8100D4	DMER8100D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–
8100D9	DMER8100D9: The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
8100E0	DMER8100E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8100E5	DMER8100E5: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8100E8	DMER8100E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–
8100EF	DMER8100EF: The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Resolve the insufficient capacity of the DP pool and retry.	–
8100F3	DMER8100F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
811001	DMER811001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
811002	DMER811002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
811003	DMER811003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
811004	DMER811004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81100A	DMER81100A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81100F	DMER81100F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–
81102C	DMER81102C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81102D	DMER81102D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81102E	DMER81102E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81102F	DMER81102F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
811030	DMER811030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
811031	DMER811031: The WWN of the remote array is illegal. Check the remote array WWN.	Check the remote array WWN.	–
811033	DMER811033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
811034	DMER811034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
811035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER811035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER811035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
811036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER811036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER811036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the LU that will be S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–
811037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER811037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 10.00.		
	DMER811037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER811037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number. Or the status of the object LU is other than normal and regression. Make the status of the object LU normal or regression. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
811038	DMER811038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
811039	DMER811039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81103A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81103A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81103A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81103E	DMER81103E: The S-VOL command is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
811042	DMER811042: The capacity is beyond the limits of support. Delete unnecessary pairs of the remote array.	Delete unnecessary pairs of the remote array.	–
811058	DMER811058: The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.	Contact the service personnel.	–
8110D4	DMER8110D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–
8110E0	DMER8110E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8110E5	DMER8110E5: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8110E8	DMER8110E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–
8110F3	DMER8110F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
812001	DMER812001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
812002	DMER812002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
812003	DMER812003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
812004	DMER812004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81200A	DMER81200A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81200F	DMER81200F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–
81202C	DMER81202C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81202D	DMER81202D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81202E	DMER81202E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81202F	DMER81202F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
812030	DMER812030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
812031	DMER812031: The WWN of the remote array is illegal. Check the remote array WWN.	Check the remote array WWN.	–
812033	DMER812033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
812034	DMER812034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
812035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER812035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER812035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
812036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER812036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER812036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–
812037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER812037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.		
	DMER812037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER812037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
812038	DMER812038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
812039	DMER812039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81203A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81203A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81203A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81203E	DMER81203E: The S-VOL command is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
8120D4	DMER8120D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–
8120E0	DMER8120E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8120E5	DMER8120E5: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8120E8	DMER8120E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–
8120EF	DMER8120EF: The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Resolve the insufficient capacity of the DP Pool and retry.	–
8120F3	DMER8120F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
813001	DMER813001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
813002	DMER813002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
813003	DMER813003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
813004	DMER813004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81300A	DMER81300A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81300F	DMER81300F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–
81301E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER81301E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER81301E: The object LU has been organized into a Remote Replication pair, the RAID group to which the object LU belongs indicates a status other than Normal, or the process of reconfigure memory is in progress. Check the pair status of the LU, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	Check the pair status of the LU, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	–
81302C	DMER81302C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81302D	DMER81302D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81302E	DMER81302E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81302F	DMER81302F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
813030	DMER813030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
813031	DMER813031: The WWN of the remote array is illegal. Check the remote array WWN.	Check the remote array WWN.	–
813033	DMER813033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
813034	DMER813034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
813035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER813035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER813035: The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
813036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER813036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER813036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–
813037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER813037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER813037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	–
813038	DMER813038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
813039	DMER813039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81303A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81303A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81303A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81303E	DMER81303E: The S-VOL command is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
8130D4	DMER8130D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8130D9	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER8130D9: The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER8130D9: The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	–
8130DE	DMER8130DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8130E0	DMER8130E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8130E2	DMER8130E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8130E3	DMER8130E3: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8130E5	DMER8130E5: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8130E8	DMER8130E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–
8130F2	DMER8130F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8130F3	DMER8130F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
814001	DMER814001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
814002	DMER814002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
814003	DMER814003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
814004	DMER814004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81400A	DMER81400A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81400F	DMER81400F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81401E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER81401E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER81401E: The object LU has been organized into a Remote Replication pair, the RAID group to which the object LU belongs indicates a status other than Normal, or the process of reconfigure memory is in progress. Check the pair status of the LU, the RAID group status, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	Check the pair status of the LU, the RAID group status, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	–
81402C	DMER81402C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81402D	DMER81402D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81402E	DMER81402E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81402F	DMER81402F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
814030	DMER814030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
814031	DMER814031: The WWN of the remote array is illegal. Check the remote array WWN.	Check the remote array WWN.	
814033	DMER814033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
814034	DMER814034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
814035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER814035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER814035: The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
814036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER814036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER814036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–
814037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER814037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER814037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and CTG number.	–
814038	DMER814038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
814039	DMER814039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81403A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81403A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81403A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81403E	DMER81403E: The S-VOL command is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
8140D4	DMER8140D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–
8140D9	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER8140D9: The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Confirm the Array ID, pair status of Local and Remote Replication and the status of the RAID group to which the target LU belongs. Retry after waiting the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER8140D9: The status of the remote array is in an inappropriate condition to operate the Remote Replication pair. Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	Check the Array ID, pair status of Local and Remote Replication, the status of the RAID group to which the target LU belongs, and reconfigure memory status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal. Retry after the process of reconfigure memory is completed if it is in progress.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8140DE	DMER8140DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8140E0	DMER8140E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8140E2	DMER8140E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8140E3	DMER8140E3: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8140E5	DMER8140E5: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8140E8	DMER8140E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–
8140F2	DMER8140F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8140F3	DMER8140F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
815001	DMER815001: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
815002	DMER815002: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
815003	DMER815003: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
815004	DMER815004: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81500A	DMER81500A: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
81500F	DMER81500F: The path of the remote array was detached. Check the status of the path.	Check the status of the path.	–
81502C	DMER81502C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81502D	DMER81502D: The S-VOL of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81502E	DMER81502E: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81502F	DMER81502F: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
815030	DMER815030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
815031	DMER815031: The WWN of the remote array is illegal. Check the remote array WWN.	Check the remote array WWN.	–
815033	DMER815033: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
815034	DMER815034: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
815035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER815035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER815035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
815036	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER815036: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER815036: The process is in progress. Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	Retry after waiting for a while. In case that the RAID group to which the S-VOL belongs indicate a status other than Normal, retry after the status becomes Normal.	–
815037	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER815037: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.30.		
	DMER815037: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER815037: The remote array is busy. Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Retry after checking the pair status of the LU, Array ID, number of the connected arrays, and group number. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	–
815038	DMER815038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
815039	DMER815039: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81503A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER81503A: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER81503A: The remote array is busy. Retry after waiting for a while.	Retry after waiting for a while.	–
81503E	DMER81503E: The S-VOL command is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
8150D4	DMER8150D4: The LU which has been indicated as S-VOL in the remote subsystem is P-VOL now. Confirm the LU status in the remote subsystem.	Confirm the LU status in the remote subsystem.	–
8150E0	DMER8150E0: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8150E5	DMER8150E5: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8150E8	DMER8150E8: The remote array is executing a pair operation with another array. Retry after the pair operation is completed with another array.	Retry after the pair operation is completed with another array.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8150EF	DMER8150EF: The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Resolve the insufficient capacity of the DP Pool and retry.	–
8150F3	DMER8150F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
816022	DMER816022: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
816023	DMER816023: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
816024	DMER816024: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
816025	DMER816025: The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
816026	DMER816026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
816027	DMER816027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
816028	DMER816028: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
816029	DMER816029: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
81602A	DMER81602A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
81602B	DMER81602B: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
81602C	DMER81602C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81602D	DMER81602D: The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81602E	DMER81602E: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
81602F	DMER81602F: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
816030	DMER816030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
816031	DMER816031: The WWN of the remote subsystem is illegal. Check the remote subsystem WWN.	Check the remote subsystem WWN.	–
816032	DMER816032: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
816033	DMER816033: The remote subsystem is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
816035	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER816035: The optional feature of Remote Replication in the remote array is locked. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER816035: The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
816038	DMER816038: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
816041	DMER816041: The S-VOL of the remote subsystem is doing a duplicate writing. Retry after waiting for a while.	Retry after waiting for a while.	–
816042	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER816042: The capacity is beyond the limits of support. Delete unnecessary pairs of the remote subsystem.	Delete unnecessary pairs of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER816042: The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
816086	DMER816086: The S-VOL of the remote subsystem is specified as a command device. Specify a volume other than a command device of the remote subsystem as the S-VOL.	Specify a volume other than a command device of the remote subsystem as the S-VOL.	–
816087	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER816087: The S-VOL of the remote subsystem is executing format. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER816087: The S-VOL of the remote subsystem is executing format. Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	–
816088	DMER816088: The S-VOL of the remote subsystem is specified as the DM-LU. Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.	Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.	–
816089	DMER816089: The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.	Check the status of the remote subsystem and cancel the access attribute.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81608A	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.		
	DMER81608A: The S-VOL in the remote subsystem cannot be allocated the differential bit of Remote Replication. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.20 or more, less than 9.30.		
	DMER81608A: The S-VOL in the remote array cannot allocate the differential bit of remote replication pair because the capacity is beyond the supported limit. Check the status of the remote array. In addition delete unnecessary pairs of the remote array.	Check the status of the remote array. In addition delete unnecessary pairs of the remote array.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER81608A: The S-VOL in the remote array cannot allocate the differential bit of remote replication pair because the capacity is beyond the supported limit. Check the status of the remote array. In addition delete unnecessary pairs of the remote array. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Check the status of the remote array. In addition delete unnecessary pairs of the remote array. Or the copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	–
81608B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER81608B: The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.		
	DMER81608B: This operation cannot be executed due to lack of resources within the remote array. Retry after deleting unnecessary pairs.	Retry after deleting unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER81608B: The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
81608C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER81608C: The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.		
	DMER81608C: This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.	Try the operation again after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER81608C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81608D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER81608D: The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.	Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER81608D: The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Check the status of the LU in the remote array.	Check the status of the LU in the remote array.	–
81608E	DMER81608E: The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
816091	DMER816091: The Array ID of the S-VOL in the remote subsystem is wrong. Check the Array ID of the remote subsystem.	Check the Array ID of the remote subsystem.	–
816094	DMER816094: The RAID level of the S-VOL in the remote array is RAID 0. Set the RAID level other than RAID 0 in the remote array.	Set the RAID level other than RAID 0 in the remote array.	–
816095	DMER816095: The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
816096	DMER816096: The S-VOL in the remote subsystem is a SnapShot V-VOL. The Remote Replication and SnapShot V-VOLs cannot be cascaded with each other. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
816097	DMER816097: The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.	Check the status of the remote subsystem.	–
81609A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER81609A: The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than Ver.7.00.		
	DMER81609A: The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.		
	DMER81609A: The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal or the LU is created in DP pool. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.	Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81609B	DMER81609B: The S-VOL in the remote subsystem is a unified LU consists of 17 or more LUs. Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.	Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.	–
81609C	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.		
	DMER81609C: The LU capacity of the S-VOL in the remote subsystem is not the same as the P-VOL capacity. Make the LU capacity of the remote subsystem the same as that of the P-VOL.	Make the LU capacity of the remote subsystem the same as that of the P-VOL.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER81609C: The LU capacity of the S-VOL in the remote array is not the same as the P-VOL capacity. Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
81609D	DMER81609D: The S-VOL in the remote array is set to a Cache Residency LU. Specify an LU other than a Cache Residency LU of the remote array.	Specify an LU other than a Cache Residency LU of the remote array.	–
81609E	DMER81609E: An LU with a capacity less than 1 GB is included in the LUs in which the S-VOL is unified in the remote subsystem. Check the status of the unified LU of the remote subsystem.	Check the status of the unified LU of the remote subsystem.	–
81609F	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER81609F: The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.	Retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.		
	DMER81609F: This operation cannot be executed due to lack of resources within the remote array. Retry after waiting for a while.	Retry after waiting for a while.	–
8160A0	DMER8160A0: The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.	Make a pool LU for the remote subsystem.	–
8160A1	DMER8160A1: The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–
8160A2	DMER8160A2: The LU status of the pool LU in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–
8160A3	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.		
	DMER8160A3: The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER8160A3: The pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8160A4	DMER8160A4: The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
8160A5	DMER8160A5: The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160A6	DMER8160A6: The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160A7	DMER8160A7: The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160A8	DMER8160A8: The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160A9	DMER8160A9: The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160AA	DMER8160AA: The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160AB	DMER8160AB: The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8160B4	DMER8160B4: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160B5	DMER8160B5: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160B6	DMER8160B6: The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160B7	DMER8160B7: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160B8	DMER8160B8: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8160B9	DMER8160B9: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8160BA	DMER8160BA: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.	Contact the service personnel.	–
8160BB	DMER8160BB: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8160BC	DMER8160BC: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8160BD	DMER8160BD: The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160BE	DMER8160BE: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal. Check the status of the remote subsystem.	Check the status of the remote subsystem.	–
8160C0	DMER8160C0: The S-VOL in the remote array does not exist on the default owner controller, and its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
8160C1	DMER8160C1: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160C2	DMER8160C2: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8160C5	DMER8160C5: The cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.	Check the cycle time that has been set for the remote subsystem.	–
8160D2	DMER8160D2: The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.	Confirm the indicated pool number in the remote subsystem.	–
8160DD	DMER8160DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
8160E0	DMER8160E0: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8160E5	DMER8160E5: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8160EA	DMER8160EA: The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
8160ED	DMER8160ED: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8160EF	DMER8160EF: The copy operation can not be performed because the capacity of the DP pool is depleted or can be depleted by this copy for either the S-VOL or an S-VOL of ShadowImage cascading in the remote array. Resolve the insufficient capacity of the DP pool and retry.	Resolve the insufficient capacity of the DP Pool and retry.	–
8160F3	DMER8160F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8160F6	DMER8160F6: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
8160F8	DMER8160F8: The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	Set the same value for both the Full Capacity Mode of target LU and data pools.	–
817022	DMER817022: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
817023	DMER817023: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
817024	DMER817024: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
817025	DMER817025: The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
817026	DMER817026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
817027	DMER817027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
817028	DMER817028: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
817029	DMER817029: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
81702A	DMER81702A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
81702B	DMER81702B: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
81702C	DMER81702C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
81702D	DMER81702D: The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
81702E	DMER81702E: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81702F	DMER81702F: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
817030	DMER817030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
817031	DMER817031: The WWN of the remote subsystem is illegal. Check the remote subsystem WWN.	Check the remote subsystem WWN.	–
817032	DMER817032: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
817033	DMER817033: The remote subsystem is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
817035	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER817035: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.70.		
	DMER817035: The optional feature of Remote Replication of the remote array is invalid. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER817035: The optional feature of Remote Replication of the remote array is invalid. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is invalid: Unlock and validate the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
817038	DMER817038: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
817041	DMER817041: The S-VOL of the remote subsystem is doing a duplicate writing. Retry after waiting for a while.	Retry after waiting for a while.	–
817042	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER817042: The capacity is beyond the limits of support. Delete unnecessary pairs of the remote subsystem.	Delete unnecessary pairs of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER817042: The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory	–
817086	DMER817086: The S-VOL of the remote subsystem is specified as a command device. Specify a volume other than a command device of the remote subsystem as the S-VOL.	Specify a volume other than a command device of the remote subsystem as the S-VOL.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
817087	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER817087: The S-VOL of the remote subsystem is executing format. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER817087: The S-VOL of the remote subsystem is executing format. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while	–
817088	DMER817088: The S-VOL of the remote subsystem is specified as the DM-LU. Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.	Specify a volume other than the DM-LU of the remote subsystem as the S-VOL.	–
817089	DMER817089: The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.	Check the status of the remote subsystem and cancel the access attribute.	–
81708A	DMER81708A: The S-VOL in the remote subsystem cannot be allocated the differential bit of Remote Replication. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
81708B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER81708B: The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.		
	DMER81708B: This operation cannot be executed due to lack of resources within the remote array. Retry after deleting unnecessary pairs.	Retry after deleting unnecessary pairs.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER81708B: The capacity of Remote Replication pair is beyond the limits within the remote array. Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	Confirm the capacity of all the SnapShot P-VOLs, all the P-VOLs and S-VOLs of Remote Replication pairs, and data pools is less than or equal to the supported capacity for the installed cache memory.	–
81708C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER81708C: The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more, less than Ver.9.30.		
	DMER81708C: This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.	Try the operation again after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER81708C: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81708D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER81708D: The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.	Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the Remote Replication User's Guide.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER81708D: The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Check the status of the LU in the remote array.	Check the status of the LU in the remote array.	–
81708E	DMER81708E: The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
817091	DMER817091: The Array ID of the S-VOL in the remote subsystem is wrong. Check the Array ID of the remote subsystem.	Check the Array ID of the remote subsystem.	–
817094	DMER817094: The RAID level of the S-VOL in the remote array is RAID 0. Make the RAID level of the remote array other than RAID 0.	Make the RAID level of the remote array other than RAID 0.	–
817095	DMER817095: The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
817096	DMER817096: The S-VOL in the remote subsystem is a SnapShot V-VOL. The Remote Replication and SnapShot V-VOLs cannot be cascaded with each other. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
817097	DMER817097: The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.	Check the status of the remote subsystem.	–
817098	DMER817098: The S-VOL in the remote array is changing the cache partition. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81709A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER81709A: The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more, less than Ver.7.00.		
	DMER81709A: The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.		
	DMER81709A: The status of the LU that will be S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal or the LU is created in DP pool. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.	Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal. Specify an LU other than an LU created in DP pool to S-VOL.	–
81709B	DMER81709B: The S-VOL in the remote subsystem is a unified LU consists of 17 or more LUs. Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.	Make the number of the unified LUs that constitute the unified LU of the remote subsystem 16 or less.	–
81709C	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.		
	DMER81709C: The LU capacity of the S-VOL in the remote subsystem is not the same as the P-VOL capacity. Make the LU capacity of the remote subsystem the same as that of the P-VOL.	Make the LU capacity of the remote subsystem the same as that of the P-VOL.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER81709C: The LU capacity of the S-VOL in the remote array is not the same as the P-VOL capacity. Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Make the LU capacity of the remote array the same as that of the P-VOL. Or the Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
81709D	DMER81709D: The S-VOL in the remote array is set to a Cache Residency LU. Specify an LU other than a Cache Residency LU of the remote array.	Specify an LU other than a Cache Residency LU of the remote array.	–
81709E	DMER81709E: An LU with a capacity less than 1 GB is included in the LUs in which the S-VOL is unified in the remote subsystem. Check the status of the unified LU of the remote subsystem.	Check the status of the unified LU of the remote subsystem.	–
81709F	DMER81709F: The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8170A0	DMER8170A0: The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.	Make a pool LU for the remote subsystem.	–
8170A1	DMER8170A1: The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–
8170A2	DMER8170A2: The LU status of the pool LU in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–
8170A3	Hitachi Storage Navigator Modular 2 is less than Ver.10.00.		
	DMER8170A3: The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER8170A3: The pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	Check the pool LU status of the remote array and retry after waiting for a while. Or the Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	–
8170A4	DMER8170A4: The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
8170A5	DMER8170A5: The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170A6	DMER8170A6: The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170A7	DMER8170A7: The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170A8	DMER8170A8: The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170A9	DMER8170A9: The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170AA	DMER8170AA: The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170AB	DMER8170AB: The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
8170B4	DMER8170B4: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8170B5	DMER8170B5: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170B6	DMER8170B6: The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170B7	DMER8170B7: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170B8	DMER8170B8: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170B9	DMER8170B9: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8170BA	DMER8170BA: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.	Contact the service personnel.	–
8170BB	DMER8170BB: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8170BC	DMER8170BC: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
8170BD	DMER8170BD: The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170BE	DMER8170BE: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal. Check the status of the remote subsystem.	Check the status of the remote subsystem.	–
8170C0	DMER8170C0: The S-VOL in the remote array does not exist on the default owner controller and, at the same time, its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
8170C1	DMER8170C1: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170C2	DMER8170C2: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
8170C5	DMER8170C5: The cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.	Check the cycle time that has been set for the remote subsystem.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8170D2	DMER8170D2: The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.	Confirm the indicated pool number in the remote subsystem.	–
8170DD	DMER8170DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
8170E0	DMER8170E0: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8170E5	DMER8170E5: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8170EA	DMER8170EA: The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
8170ED	DMER8170ED: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8170F3	DMER8170F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8170F6	DMER8170F6: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
8170F8	DMER8170F8: The Full Capacity Mode differs between the target LU and data pools. Set the same value for both the Full Capacity Mode of target LU and data pools.	Set the same value for both the Full Capacity Mode of target LU and data pools.	–
819022	DMER819022: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
819023	DMER819023: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
819024	DMER819024: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
819025	DMER819025: The S-VOL of the remote subsystem is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
819026	DMER819026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
819027	DMER819027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
819028	DMER819028: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
819029	DMER819029: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81902A	DMER81902A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
81902B	DMER81902B: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
8190DE	DMER8190DE: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81A022	DMER81A022: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A023	DMER81A023: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A024	DMER81A024: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A025	DMER81A025: The S-VOL in the remote subsystem is being formatted now. Wait a while and execute again.	Wait a while and execute again.	–
81A026	DMER81A026: The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.	Execute again after the pseudo deliberate shutdown.	–
81A027	DMER81A027: The remote subsystem is after the pseudo deliberate shutdown. Wait a while and execute again.	Wait a while and execute again.	–
81A028	DMER81A028: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
81A029	DMER81A029: Command error was occurred. Wait a while and execute again.	Wait a while and execute again.	–
81A02A	DMER81A02A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
81A02B	DMER81A02B: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
81A02C	DMER81A02C: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A02D	DMER81A02D: The S-VOL in the remote subsystem is being formatted now. Wait a while and execute again.	Wait a while and execute again.	–
81A02E	DMER81A02E: The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.	Execute again after the pseudo deliberate shutdown.	–
81A02F	DMER81A02F: The remote subsystem is undergoing the pseudo deliberate shutdown. Wait a while and execute again.	Wait a while and execute again.	–
81A030	DMER81A030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
81A032	DMER81A032: The pair operation commands are being executed in the remote subsystem. Wait a while and execute again.	Wait a while and execute again.	–
81A033	DMER81A033: The remote subsystem is undergoing hot replacement of the firmware. Wait a while and execute again.	Wait a while and execute again.	–
81A035	DMER81A035: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
81A038	DMER81A038: Both of the two paths of the remote subsystem were detached. Check the status of the path.	Check the status of the path.	–
81A041	DMER81A041: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A089	DMER81A089: The S-VOL of the remote subsystem is in the status of S-VOL Disable. Check the status of the remote subsystem and cancel the access attribute.	Check the status of the remote subsystem and cancel the access attribute.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81A08B	DMER81A08B: The S-VOL in the remote subsystem has no vacancy of the SnapShot cache block. Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the pool LU status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
81A08C	DMER81A08C: The SnapShot cache block for the S-VOL in the remote subsystem is being deleted. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
81A08D	DMER81A08D: The S-VOL of the remote subsystem does not meet the conditions of cascading with a SnapShot pair. Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the User's Guide.	Retry after checking the LU status of the remote subsystem and satisfying the conditions stated in the User's Guide.	–
81A090	DMER81A090: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
81A091	DMER81A091: The indicated Array ID is not same as the actual one for remote subsystem. Confirm the Array ID for the remote subsystem.	Confirm the Array ID for the remote subsystem.	–
81A095	DMER81A095: The S-VOL in the remote subsystem is undergoing the forced parity correction. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A097	DMER81A097: The S-VOL in the remote subsystem received an illegal command. Check the status of the remote subsystem.	Check the status of the remote subsystem.	–
81A099	DMER81A099: The array can not execute the operation because the target P-VOL of the specified LU does not exist. Delete the pair regarding the P-VOL in the remote array and create a remote replication pair.	Delete the pair regarding the P-VOL in the remote array and create a remote replication pair.	–
81A09A	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER81A09A: The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the LU status of the remote subsystem.	Check the LU status of the remote subsystem.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER81A09A: The LU status of the S-VOL in the remote array is normal or other than regressed or the RAID group to which the LU is belongs indicates a status other than Normal. Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	Check the LU status of the remote array. Retry after the RAID group status becomes Normal in case that the RAID group indicates a status other than Normal.	–
81A09F	DMER81A09F: The internal transaction which are splitting or deleting for SnapShot is working now. Retry after waiting for a while.	Retry after waiting for a while.	–
81A0A0	DMER81A0A0: The remote subsystem has no pool LU. Make a pool LU for the remote subsystem.	Make a pool LU for the remote subsystem.	–
81A0A1	DMER81A0A1: The LU specified as the S-VOL in the remote subsystem is a pool LU. The pool LU cannot be set to an S-VOL. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–
81A0A2	DMER81A0A2: The LU status of the S-VOL in the remote subsystem is normal or other than regressed. Check the pool LU status of the remote subsystem.	Check the pool LU status of the remote subsystem.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81A0A3	DMER81A0A3: The pool LU in the remote subsystem is undergoing the forced parity correction. Check the pool LU status of the remote subsystem and retry after waiting for a while.	Check the pool LU status of the remote subsystem and retry after waiting for a while.	–
81A0A4	DMER81A0A4: The S-VOL in the remote subsystem exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	Check the status of the remote subsystem. In addition, delete unnecessary pairs of the remote subsystem.	–
81A0A5	DMER81A0A5: The Remote Replication pair status of the S-VOL in the remote subsystem is Failure. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0A6	DMER81A0A6: The Remote Replication pair status of the S-VOL in the remote subsystem is Threshold Over. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0A7	DMER81A0A7: The Remote Replication pair status of the S-VOL in the remote subsystem is Split (no reading/writing allowed). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0A8	DMER81A0A8: The Remote Replication pair status of the S-VOL in the remote subsystem is Takeover (including Busy). Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0A9	DMER81A0A9: The Remote Replication pair status of the S-VOL in the remote subsystem is Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0AA	DMER81A0AA: The Remote Replication pair status of the S-VOL in the remote subsystem is Split. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0AB	DMER81A0AB: The Remote Replication pair status of the S-VOL in the remote subsystem is not Simplex. Check the Remote Replication pair status of the remote subsystem.	Check the Remote Replication pair status of the remote subsystem.	–
81A0B4	DMER81A0B4: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0B5	DMER81A0B5: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU change for it has been started. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0B6	DMER81A0B6: The S-VOL in the remote subsystem does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0B7	DMER81A0B7: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, an ownership of LU to be changed is blocked. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
81A0B8	DMER81A0B8: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it is using the sequential buffer. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0B9	DMER81A0B9: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
81A0BA	DMER81A0BA: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, it has pinned data. Contact the service personnel.	Contact the service personnel.	–
81A0BB	DMER81A0BB: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
81A0BC	DMER81A0BC: The S-VOL in the remote subsystem cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
81A0BD	DMER81A0BD: The S-VOL in the remote subsystem cannot change an ownership of LU and a time-out occurred. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0BE	DMER81A0BE: The S-VOL in the remote subsystem cannot change an ownership of LU and, at the same time, the group# is illegal.	Check the status of the remote subsystem.	–
81A0C1	DMER81A0C1: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is making the system copy. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0C2	DMER81A0C2: The S-VOL in the remote subsystem does not exist on the default owner controller and, at the same time, it is writing the takeover information. Check the status of the remote subsystem and retry after waiting for a while.	Check the status of the remote subsystem and retry after waiting for a while.	–
81A0D2	DMER81A0D2: The S-VOL pool number in the remote subsystem is not same as the one that is being used for SnapShot. Confirm the indicated pool number in the remote subsystem.	Confirm the indicated pool number in the remote subsystem.	–
81A0D3	DMER81A0D3: The license validity of the remote subsystem is expired. Purchase the license.	Purchase the license.	–
81A0DD	DMER81A0DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
81A0E0	DMER81A0E0: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
81A0E5	DMER81A0E5: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
81A0F3	DMER81A0F3: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
820005	DMER820005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
820006	DMER820006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
820007	DMER820007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
820008	DMER820008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
820009	DMER820009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82000B	DMER82000B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82000C	DMER82000C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82000D	DMER82000D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82000E	DMER82000E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
820011	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER820011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER820011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays or the maximum number of the connected arrays is beyond the limits. Check the pair status of the LU and Array ID or number of the connected arrays.	Check the pair status of the LU and Array ID or number of the connected arrays.	–
820012	DMER820012: The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.	Check the number of Remote Replication pairs.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
820015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMER820015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.		
	DMER820015: The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER820015: The status of the object P-VOL or S-VOL is other than normal and regression or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
820017	DMER820017: The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
820019	DMER820019: The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.	Equalize the capacities of the P-VOL and S-VOL.	–
82001A	DMER82001A: The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
82001C	DMER82001C: The object LU is a command device. Specify an LU other than a command device.	Specify an LU other than a command device.	–
82001D	DMER82001D: The change of the default owner controller is reserved for the object LU. Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.	Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.	–
82001E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82001E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82001E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
820021	DMER820021: The object LU has already been cascaded with a ShadowImage pair. Check the pair status of the LU and check that its pair attribute is P-VOL.	Check the pair status of the LU and check that its pair attribute is P-VOL.	–
820032	DMER820032: The remote array is receiving a command. Retry after waiting.	Retry after waiting.	–
82003D	DMER82003D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82003F	DMER82003F: The LU assigned to a Remote Replication pair has already been paired by ShadowImage. Check the pair status of the LU.	Check the pair status of the LU.	–
820040	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMER820040: The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more, less than Ver.8.00.		
	DMER820040: The object LU of the remote array is a volume of ShadowImage that status is Reverse Synchronizing/Split Pending/Paired Internally Synchronizing or cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.		
	DMER820040: The S-VOL of the specified pair cannot accept Read/Write instructions or is a part of ShadowImage whose status is Reverse Synchronizing. Check the status of the S-VOL or the pair status of the ShadowImage pair.	Check the status of the S-VOL or the pair status of the ShadowImage pair.	–
820041	DMER820041: The process is in progress. Retrying after waiting.	Retrying after waiting.	–
820045	DMER820045: The stripe size of the object LU of the remote array is other than 64KB. Make the stripe size of the LU of the remote array 64KB.	Make the stripe size of the LU of the remote array 64KB.	–
820046	DMER820046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	–
820048	DMER820048: The specified LU is an S-VOL of ShadowImage. Split the ShadowImage pair that comprises an LU of the remote array.	Split the ShadowImage pair that comprises an LU of the remote array.	–
820049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER820049: The object LU of the remote array is being formatted. Create the pair again after the formatting is completed.	Create the pair again after the formatting is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER820049: The object LU of the remote array is being formatted. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	–
82004A	DMER82004A: The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.	Cancel the S-VOL Disable specified for the LU of the remote array.	–
820050	DMER820050: The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status which concerns the forced restoration by means of parity of the LU of the remote array to Restored or Skip.	Make the status which concerns the forced restoration by means of parity of the LU of the remote array to “Restored” or “Correction Skipped”.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
820053	DMER820053: The number of unified LUs of the remote array is 17 or more. Make the number of unified LUs of the remote array 16 or less.	Make the number of unified LUs of the remote array 16 or less.	–
820054	DMER820054: The V-VOL which is paired with a SnapShot P-VOL of the remote array has already been organized into a Remote Replication pair. Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.	Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.	–
820055	DMER820055: The object LU of the remote array is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.	Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.	–
820058	DMER820058: The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.	Contact the service personnel.	–
820059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER820059: The license validity of the remote array is expired. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER820059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
82005A	DMER82005A: The DM-LU is not set of the remote array or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.	Retry after setting the DM-LU or check the status of the LU.	–
82005B	DMER82005B: The specified S-VOL is the pool LU. Check the status of the LU.	Check the status of the LU.	–
82005C	DMER82005C: The specified S-VOL is the NAS LU. Check the status of the LU.	Check the status of the LU.	–
8200C6	DMER8200C6: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8200C7	DMER8200C7: The specified S-VOL is the reserved LU. Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.	Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.	–
8200CF	DMER8200CF: The disk drives that configure a RAID group to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8200D4	DMER8200D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8200D9	DMER8200D9: The status of the remote array is in an inappropriate condition to create or resynchronize the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.	Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.	"User's Guide"
8200DE	DMED8200DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8200E2	DMER8200E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8200E3	DMER8200E3: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8200E9	DMER8200E9: The specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
8200F1	DMER8200F1: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8200F2	DMER8200F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8200F5	DMER8200F5: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
821005	DMER821005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
821006	DMER821006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
821007	DMER821007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
821008	DMER821008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
821009	DMER821009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82100B	DMER82100B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82100C	DMER82100C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82100D	DMER82100D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82100E	DMER82100E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
821011	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER821011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER821011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays or the maximum number of the connected arrays is beyond the limits. Check the pair status of the LU and Array ID or number of the connected Array.	Check the pair status of the LU and Array ID or number of the connected Array.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
821012	DMER821012: The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.	Check the number of Remote Replication pairs.	–
821015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMER821015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.		
	DMER821015: The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP Pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Make the status of the LU normal or regressive and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER821015: The status of the object P-VOL or S-VOL is other than normal and regression or the specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Make the status of the P-VOL or S-VOL normal or regression and confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
821017	DMER821017: The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
821019	DMER821019: The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.	Equalize the capacities of the P-VOL and S-VOL.	–
82101A	DMER82101A: The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
82101C	DMER82101C: The object LU is a command device. Specify an LU other than a command device.	Specify an LU other than a command device.	–
82101D	DMER82101D: The change of the default owner controller is reserved for the object LU. Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.	Cancel the reservation for changing the default owner controller or specify the LU for which the change of the default owner controller is not reserved.	–
82101E	DMER82101E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
821021	DMER821021: The object LU has already been cascaded with a ShadowImage pair. Check the pair status of the LU and check that its pair attribute is P-VOL.	Check the pair status of the LU and check that its pair attribute is P-VOL.	–
821032	DMER821032: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
82103F	DMER82103F: The LU assigned to a Remote Replication pair has already been paired by ShadowImage. Check the pair status of the LU.	Check the pair status of the LU.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
821040	DMER821040: The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
821041	DMER821041: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
821045	DMER821045: The stripe size of the object LU of the remote array is other than 64KB. Make the stripe size of the LU of the remote array 64KB.	Make the stripe size of the LU of the remote array 64KB.	–
821046	DMER821046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array in the Simplex status once and then operate the pair.	Place the SnapShot pair, which comprises the LU of the remote array in the Simplex status once and then operate the pair.	–
821048	DMER821048: The specified LU is an S-VOL of ShadowImage. Split the ShadowImage pair that comprises an LU of the remote array.	Split the ShadowImage pair that comprises an LU of the remote array.	–
821049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER821049: The object LU of the remote array is being quick formatted. Create the pair again after the quick formatting is completed.	Create the pair again after the quick formatting is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER821049: The object LU of the remote array is being quick formatted. Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the quick formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	–
82104A	DMER82104A: The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.	Cancel the S-VOL Disable specified for the LU of the remote array.	–
821050	DMER821050: The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to Restored or Skip.	Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to “Restored” or “Correction Skipped”.	–
821053	DMER821053: The number of unified Lus of the remote array is 17 or more. Make the number of unified Lus of the remote array 16 or less.	Make the number of unified Lus of the remote array 16 or less.	–
821054	DMER821054: The V-VOL, which is paired with a SnapShot P-VOL of the remote array has already been organized into a Remote Replication pair. Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.	Split the Remote Replication pair comprising a SnapShot V-VOL that is an LU of the remote array.	–
821055	DMER821055: The object LU of the remote array is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.	Specify the LU of the remote array to a volume other than a V-VOL of SnapShot.	–
821058	DMER821058: The ShadowImage P-VOL of the remote array is in the Failure (S-VOL Switch) status. Contact the service personnel.	Contact the service personnel.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
821059	DMER821059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
82105A	DMER82105A: The DM-LU is not set of the remote array or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.	Retry after setting the DM-LU or check the status of the LU.	–
82105B	DMER82105B: The specified S-VOL is the pool LU. Check the status of the LU.	Check the status of the LU.	–
82105C	DMER82105C: The specified S-VOL is the NAS LU. Check the status of the LU.	Check the status of the LU.	–
8210C6	DMER8210C6: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8210C7	DMER8210C7: The specified S-VOL is the reserved LU. Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.	Re-execute the migration specifying an LU other than the reserved LU for the S-VOL.	–
8210CF	DMER8210CF: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8210D4	DMER8210D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8210DE	DMER8210DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8210E2	DMER8210E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8210E3	DMER8210E3: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8210E9	DMER8210E9: The specified S-VOL is an LU created in DP pool or a volume of ShadowImage pair that includes the LU created in DP pool. Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	Confirm the S-VOL and the ShadowImage pair that the specified S-VOL is part of.	–
8210F1	DMER8210F1: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8210F2	DMER8210F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8210F5	DMER8210F5: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
822005	DMER822005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
822006	DMER822006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
822007	DMER822007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
822008	DMER822008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
822009	DMER822009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82200B	DMER82200B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82200C	DMER82200C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82200D	DMER82200D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82200E	DMER82200E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
822011	DMER822011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
822014	DMER822014: The current Array ID differs from the number that was set initially. Check the Array ID.	Check the Array ID.	–
822015	DMER822015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
82201E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82201E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82201E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
822020	DMER822020: The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
822032	DMER822032: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
82203D	DMER82203D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
822041	DMER822041: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
822046	DMER822046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.	Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.	–
82204A	DMER82204A: The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote array.	Cancel the S-VOL Disable specified for the LU of the remote array.	–
822050	DMER822050: The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to Restored or Skip.	Make the status, which concerns the forced restoration by means of parity, of the LU of the remote array to “Restored” or “Correction Skipped”.	–
822059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER822059: The license validity of the remote array is expired. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER822059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
8220CF	DMER8220CF: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8220D4	DMER8220D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8220D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8220D7: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8220D7: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	–
8220D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8220D8: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8220D8: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8220DE	DMER8220DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8220E2	DMER8220E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8220E3	DMER8220E3: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8220F2	DMER8220F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
823005	DMER823005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
823006	DMER823006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
823007	DMER823007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
823008	DMER823008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
823009	DMER823009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82300B	DMER82300B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82300C	DMER82300C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82300D	DMER82300D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82300E	DMER82300E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
823011	DMER823011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
82301E	DMER82301E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
823032	DMER823032: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
823041	DMER823041: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
823046	DMER823046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.	Place the SnapShot pair, which comprises the LU of the remote array, in the Simplex status once and then operate the pair.	–
8230D4	DMER8230D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8230D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8230D7: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8230D7: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8230D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8230D8: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8230D8: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–
8230D9	DMER8230D9: The status of the remote array is in an inappropriate condition to create or resynchronize the Remote Replication pair. Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.	Confirm the Array ID, pair status of Local and Remote Replication. See the User's Guide for their detail information.	"User's Guide"
824005	DMER824005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
824006	DMER824006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
824007	DMER824007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
824008	DMER824008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
824009	DMER824009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82400B	DMER82400B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82400C	DMER82400C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82400D	DMER82400D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82400E	DMER82400E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–
824011	DMER824011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
82401E	DMER82401E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
824032	DMER824032: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
824041	DMER824041: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
824046	DMER824046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8240D4	DMER8240D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8240D7	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8240D7: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8240D7: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	–
8240D8	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER8240D8: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	Execute again after having the SnapShot pair status in the remote array be Split or Simplex.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER8240D8: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	Execute again after having the ShadowImage pair status in the remote array be Split or Simplex.	–
8240D9	DMER8240D9: The status the remote array is in an inappropriate condition to create the Remote Replication pair. Confirm the Array ID, pair status of Remote Replication and status of SnapShot and ShadowImage. See the User's Guide for their detail information.	Confirm the Array ID, pair status of Remote Replication and status of SnapShot and ShadowImage. See the User's Guide for their detail information.	–
825005	DMER825005: The LU of the remote array is being formatted. Retry after waiting for a while.	Retry after waiting for a while.	–
825006	DMER825006: The remote array is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
825007	DMER825007: The remote array has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
825008	DMER825008: The S-VOL is undefined. Check the status of the LU.	Check the status of the LU.	–
825009	DMER825009: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–
82500B	DMER82500B: The remote array is undergoing hot replacement of the firmware. Retry after waiting for a while.	Retry after waiting for a while.	–
82500C	DMER82500C: A command error occurred. Retry after waiting for a while.	Retry after waiting for a while.	–
82500D	DMER82500D: The optional feature of Remote Replication of the remote array is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
82500E	DMER82500E: The status of the S-VOL cannot be changed. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
825011	DMER825011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote arrays. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
825014	DMER825014: The current Array ID differs from the number that was set initially. Check the Array ID.	Check the Array ID.	–
825015	DMER825015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
82501E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82501E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82501E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
825020	DMER825020: The object LU of the remote array is being restored as a volume of ShadowImage or cannot accept Read/Write instructions. Check the pair status of the LU.	Check the pair status of the LU.	–
825032	DMER825032: The remote array is receiving a command. Retry after waiting for a while.	Retry after waiting for a while.	–
82503D	DMER82503D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–
825041	DMER825041: The process is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–
825046	DMER825046: The object LU of the remote array is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	Place the SnapShot pair which comprises the LU of the remote array in the Simplex status once and then operate the pair.	–
825047	DMER825047: The specified LU is an S-VOL of ShadowImage. Specify an LU other than a ShadowImage S-VOL that comprises the LU of the remote array.	Specify an LU other than a ShadowImage S-VOL that comprises the LU of the remote array.	–
82504B	DMER82504B: Check the pair status of the LU. Cancel the S-VOL Disable specified for the LU of the remote array (at the time of a swap).	Cancel the S-VOL Disable specified for the LU of the remote array (at the time of a swap).	–
825050	DMER825050: The object LU of the remote array has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status which concerns the forced restoration by means of parity of the LU of the remote array to Restored or Skip.	Make the status which concerns the forced restoration by means of parity of the LU of the remote array to "Restored" or "Correction Skipped".	–
825056	DMER825056: The target LU of the remote array is a V-VOL of SnapShot (at the time of swap). Specify the LU of the remote array other than a V-VOL of SnapShot.	Specify the LU of the remote array other than a V-VOL of SnapShot.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
825059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER825059: The license validity of the remote array is expired. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER825059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
8250CF	DMER8250CF: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8250D4	DMER8250D4: The LU which has been indicated as S-VOL in the remote array is P-VOL now. Confirm the LU status in the remote array.	Confirm the LU status in the remote array.	–
8250D7	DMER8250D7: The indicated S-VOL is not Split status in the SnapShot pair. Execute again after having the SnapShot pair status Split or Simplex.	Execute again after having the SnapShot pair status Split or Simplex.	–
8250D8	DMER8250D8: The indicated S-VOL is not Split status in the ShadowImage pair. Execute again after having the ShadowImage pair status Split or Simplex.	Execute again after having the ShadowImage pair status Split or Simplex.	–
8250DE	DMER8250DE: Auto Migration is being executed in the remote array. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8250E2	DMER8250E2: The remote array is executing Auto Migration. Retry after the Auto Migration is completed.	Retry after the Auto Migration is completed.	–
8250E3	DMER8250E3: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8250F2	DMER8250F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
826011	DMER826011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote subsystems. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
826012	DMER826012: The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.	Check the number of Remote Replication pairs.	–
826015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMER826015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.		
	DMER826015: The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.	Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER826015: The status of the object LU is other than normal and regression or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.	Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.	–
826017	DMER826017: The S-VOL resides in the RAID group of RAID 0. Choose a RAID group of RAID level other than RAID 0.	Choose a RAID group of RAID level other than RAID 0.	–
826019	DMER826019: The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.	Equalize the capacities of the P-VOL and S-VOL.	–
82601A	DMER82601A: The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
82601C	DMER82601C: The object LU is a command device. Specify an LU other than a command device.	Specify an LU other than a command device.	–
82601E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82601E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82601E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
826026	DMER826026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
826027	DMER826027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
82602A	DMER82602A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
826040	DMER826040: The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	–
826045	DMER826045: The stripe size of the object LU of the remote subsystem is other than 64KB. Make the stripe size of the LU of the remote subsystem 64KB.	Make the stripe size of the LU of the remote subsystem 64KB.	–
826046	DMER826046: The object LU of the remote subsystem is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.	Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.	–
826049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER826049: The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed.	Create the pair again after the formatting is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER826049: The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the formatting is completed. Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	–
82604A	DMER82604A: The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote subsystem.	Cancel the S-VOL Disable specified for the LU of the remote subsystem.	–
826050	DMER826050: The object LU of the remote subsystem has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to Restored or Skip.	Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to “Restored” or “Correction Skipped”.	–
826053	DMER826053: The number of unified LUs of the remote subsystem is 17 or more. Make the number of unified LUs of the remote subsystem 16 or less.	Make the number of unified LUs of the remote subsystem 16 or less.	–
826055	DMER826055: The object LU of the remote subsystem is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.	Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.	–
826059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER826059: The license validity of the remote subsystem is expired. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER826059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82605A	DMER82605A: The DM-LU is not set of the remote subsystem or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.	Retry after setting the DM-LU or check the status of the LU.	–
82605B	DMER82605B: The specified S-VOL is the pool LU. Check the status of the LU.	Check the status of the LU.	–
8260B3	DMER8260B3: The specified S-VOL is a unified LU including a SubLU with a capacity less than 1 GB. Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.	Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.	–
8260C4	DMER8260C4: When a new pair, which is to be (or is) bi-directional, of a group is created, the cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.	Check the cycle time that has been set for the remote subsystem.	–
8260C6	DMER8260C6: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8260C7	DMER8260C7: The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.	Perform the migration specifying an LU other than the reserved LU for the S-VOL.	–
8260CA	DMER8260CA: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8260CB	DMER8260CB: The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.	Perform the migration specifying an LU other than the reserved LU for the S-VOL.	–
8260CF	DMER8260CF: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8260D1	DMER8260D1: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8260D2	DMER8260D2: The specified data pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.	Confirm the indicated data pool number in the remote array.	–
8260DB	DMER8260DB: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
8260DD	DMER8260DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
8260DE	DMER8260DE: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8260E1	DMER8260E1: The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
8260E3	DMER8260E3: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8260E9	DMER8260E9: The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
8260F1	DMER8260F1: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8260F2	DMER8260F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8260F5	DMER8260F5: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
827011	DMER827011: The object LU has already been organized into a Remote Replication pair. Besides, the Array ID differs between the local and remote subsystems. Check the pair status of the LU and Array ID.	Check the pair status of the LU and Array ID.	–
827012	DMER827012: The number of Remote Replication pairs exceeded the maximum value that can be supported. Check the number of Remote Replication pairs.	Check the number of Remote Replication pairs.	–
827015	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMER827015: The status of the object LU is other than normal and regressive. Make the status of the LU normal or regressive.	Make the status of the LU normal or regressive.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more, less than 10.00.		
	DMER827015: The status of the object LU is other than normal and regressive or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.	Make the status of the LU normal or regressive and specify an LU other than an LU created in DP pool to S-VOL.	–
	Hitachi Storage Navigator Modular 2 is Ver.10.00 or more.		
	DMER827015: The status of the object LU is other than normal and regression or the specified S-VOL is an LU created in DP pool. Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.	Make the status of the LU normal or regression and specify an LU other than an LU created in DP pool to S-VOL.	–
827017	DMER827017: The S-VOL is configured as RAID 0. Check the RAID level of the specified LU.	Check the RAID level of the specified LU.	–
827019	DMER827019: The capacity differs between the P-VOL and S-VOL. Equalize the capacities of the P-VOL and S-VOL.	Equalize the capacities of the P-VOL and S-VOL.	–
82701A	DMER82701A: The S-VOL is a Cache Residency LU or has been set to the reserved Cache Residency LU. Check the status of the LU.	Check the status of the LU.	–
82701C	DMER82701C: The object LU is a command device. Specify an LU other than a command device.	Specify an LU other than a command device.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82701E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82701E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82701E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
827026	DMER827026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
827027	DMER827027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
82702A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER82702A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER82702A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
827040	DMER827040: The S-VOL in the remote subsystem has created a ShadowImage pair. The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	The Remote Replication and ShadowImage volumes cannot be cascaded with each other. Check the LU status of the remote subsystem.	–
827045	DMER827045: The stripe size of the object LU of the remote subsystem is other than 64KB. Make the stripe size of the LU of the remote subsystem 64KB.	Make the stripe size of the LU of the remote subsystem 64KB.	–
827046	DMER827046: The object LU of the remote subsystem is being restored as a volume of SnapShot or cannot accept Read/Write instructions. Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.	Place the SnapShot pair, which comprises the LU of the remote subsystem, in the Simplex status once and then operate the pair.	–
827049	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMER827049: The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed.	Create the pair again after the formatting is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMER827049: The object LU of the remote subsystem is being formatted. Create the pair again after the formatting is completed Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Create the pair again after the formatting is completed Or management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	–
82704A	DMER82704A: The S-VOL is in the S-VOL Disable mode. Cancel the S-VOL Disable specified for the LU of the remote subsystem.	Cancel the S-VOL Disable specified for the LU of the remote subsystem.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
827050	DMER827050: The object LU of the remote subsystem has not undergone the forced restoration by means of parity or it is undergoing the restoration above. Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to Restored or Skip.	Make the status, which concerns the forced restoration by means of parity, of the LU of the remote subsystem to “Restored” or “Correction Skipped”.	–
827053	DMER827053: The number of unified LUs of the remote subsystem is 17 or more. Make the number of unified LUs of the remote subsystem 16 or less.	Make the number of unified LUs of the remote subsystem 16 or less.	–
827055	DMER827055: The object LU of the remote subsystem is a V-VOL of SnapShot (at the time of a pair formation). Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.	Specify the LU of the remote subsystem to a volume other than a V-VOL of SnapShot.	–
827059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER827059: The license validity of the remote subsystem is expired. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER827059: The license validity of the remote array is expired. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license validity is expired: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
82705A	DMER82705A: The DM-LU is not set of the remote subsystem or the DM-LU was specified as S-VOL. Retry after setting the DM-LU or check the status of the LU.	Retry after setting the DM-LU or check the status of the LU.	–
82705B	DMER82705B: The specified S-VOL is the pool LU. Check the status of the LU.	Check the status of the LU.	–
8270B3	DMER8270B3: The specified S-VOL is a unified LU including a SubLU with a capacity less than 1 GB. Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.	Check whether the LU with a capacity less than 1 GB is included in each LU of the specified unified LU.	–
8270C4	DMER8270C4: When a new pair, which is to be (or is) bi-directional, of a group is created, the cycle time that has been set for the remote subsystem is less than the minimum interval. Check the cycle time that has been set for the remote subsystem.	Check the cycle time that has been set for the remote subsystem.	–
8270C6	DMER8270C6: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8270C7	DMER8270C7: The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.	Perform the migration specifying an LU other than the reserved LU for the S-VOL.	–
8270CA	DMER8270CA: The specified S-VOL is undergoing the migration. Perform the migration after deleting the pair.	Perform the migration after deleting the pair.	–
8270CB	DMER8270CB: The specified S-VOL is the reserved LU. Perform the migration specifying an LU other than the reserved LU for the S-VOL.	Perform the migration specifying an LU other than the reserved LU for the S-VOL.	–
8270CF	DMER8270CF: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
8270D1	DMER8270D1: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
8270D2	DMER8270D2: The specified data pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.	Confirm the indicated data pool number in the remote array.	–
8270DB	DMER8270DB: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
8270DD	DMER8270DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–
8270DE	DMER8270DE: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8270E1	DMER8270E1: The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
8270E3	DMER8270E3: The RAID group to which the LU that will be specified to S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
8270E9	DMER8270E9: The LU created in DP pool was specified as S-VOL. Specify an LU other than the LU created in DP pool.	Specify an LU other than the LU created in DP pool.	–
8270F1	DMER8270F1: Management information of Dynamic Provisioning for the LU specified as S-VOL in the remote array is being updated. Retry after waiting a while.	Retry after waiting a while.	–
8270F2	DMER8270F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
8270F5	DMER8270F5: The Full Capacity Mode differs between the P-VOL and S-VOL. Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	Set the same value for both the Full Capacity Mode of P-VOL and S-VOL. Or the Full Capacity Mode is not supported. Check the firmware version of array.	–
82901E	DMER82901E: The object LU has been organized into a Remote Replication pair. Check the pair status of the LU.	Check the pair status of the LU.	–
829026	DMER829026: The remote subsystem is undergoing the pseudo deliberate shutdown. Retry after the pseudo deliberate shutdown is completed.	Retry after the pseudo deliberate shutdown is completed.	–
829027	DMER829027: The remote subsystem has undergone the pseudo deliberate shutdown. Retry after waiting for a while.	Retry after waiting for a while.	–
82902A	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER82902A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMER82902A: The optional feature of Remote Replication of the remote subsystem is invalid. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
82903D	DMER82903D: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82905E	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER82905E: Pair status of corresponding LU does not match. Confirm the pair status of LU and the other side's LUN.	Confirm the pair status of LU and the other side's LUN.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER82905E: There is a SnapShot pair, which has an MU number specified for a SnapShot P-VOL, has not been placed in the Paired or Split status, and whose S-VOL is one of the S-VOLs with the specified group numbers. Check the pair status of the SnapShot. Or, the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Check the pair status of the SnapShot. Or, retry after the process of reconfigure memory is completed.	–
82905F	DMER82905F: There is no pair, which is in the Paired status, in the target group. Check the pair status of each LU in the target group.	Check the pair status of each LU in the target group.	–
8290DE	DMER8290DE: Auto Migration is being executed in the remote array just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
8290F2	DMER8290F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–
82A011	DMER82A011: The indicated LU is in the Remote Replication pair for another subsystem. Confirm the pair status for the LU and also the Array ID.	Confirm the pair status for the LU and also the Array ID.	–
82A015	DMER82A015: The status of the object LU is other than normal and regressive. Make the LU status be normal or regressive.	Make the LU status be normal or regressive.	–
82A01E	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82A01E: The indicated LU has already been set as the Remote Replication pair. Confirm the pair status for the LU.	Confirm the pair status for the LU.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82A01E: The object LU has been organized into a Remote Replication pair or the RAID group to which the object LU belongs indicates a status other than Normal. Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	Check the pair status of the LU and the RAID group status. Retry after the RAID group status becomes Normal in case that the RAID group indicate a status other than Normal.	–
82A026	DMER82A026: The remote subsystem is undergoing the pseudo deliberate shutdown. Execute again after the pseudo deliberate shutdown.	Execute again after the pseudo deliberate shutdown.	–
82A027	DMER82A027: The remote subsystem is after the pseudo deliberate shutdown. Wait a while and execute again.	Wait a while and execute again.	–
82A02A	DMER82A02A: The optional feature of Remote Replication of the remote array is disabled. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
82A02B	DMER82A02B: Both of the two remote paths of the local array were detached. Check the status of the path.	Check the status of the path.	–
82A030	DMER82A030: The S-VOL is undefined. Check the attribute of the LU.	Check the attribute of the LU.	–
82A031	DMER82A031: The WWN of the remote array is illegal. Check the equipment WWN.	Check the equipment WWN.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82A035	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMER82A035: The optional feature of Remote Replication of the remote array is locked. Unlock and validate the optional feature.	Unlock and validate the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more, less than 9.70.		
	DMER82A035: The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature.	Unlock and enable the optional feature.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER82A035: The optional feature of Remote Replication of the remote array is locked. Unlock and enable the optional feature. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the optional feature of Remote Replication is locked: Unlock and enable the optional feature. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
82A038	DMER82A038: Both of the two paths of the remote array were detached. Check the status of the path.	Check the status of the path.	–
82A046	DMER82A046: The indicated LU in the remote subsystem is being restored for SnapShot or can not be executed the Read and Write command for the SnapShot pair. Execute again after having the SnapShot pair status in the remote subsystem be Simplex.	Execute again after having the SnapShot pair status in the remote subsystem be Simplex.	–
82A04A	DMER82A04A: The S-VOL is 'S-VOL Disable' status. Release the indication for the 'S-VOL Disable' in the remote subsystem.	Release the indication for the 'S-VOL Disable' in the remote subsystem.	–
82A050	DMER82A050: The indicated LU in the remote subsystem is in the forced parity correction, or has not executed the forced parity correction yet. Make the LU status for the forced parity correction in remote subsystem be Restored or Skip.	Make the LU status for the forced parity correction in remote subsystem be “Restored” or “Correction Skipped”.	–
82A059	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMER82A059: The license of the remote subsystem expires. Purchase the license.	Purchase the license.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMER82A059: The license of the remote array expires. Purchase the license. Or the process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	• When the license expires: Purchase the license. • When the process of reconfigure memory is in progress: Retry after the process of reconfigure memory is completed.	–
82A05D	DMER82A05D: Now executing. Wait a while and execute again.	Wait a while and execute again.	–
82A089	DMER82A089: The S-VOL of the remote array is in the status of S-VOL Disable. Check the status of the remote array and cancel the access attribute.	Check the status of the remote array and cancel the access attribute.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82A08B	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER82A08B: The S-VOL in the remote array has no SnapShot cache block available. Check the data pool LU status of the remote array. In addition, delete unnecessary pairs of the remote array.	Check the data pool LU status of the remote array. In addition, delete unnecessary pairs of the remote array.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.		
	DMER82A08B: This operation cannot be executed due to lack of resources within the remote array. Try the operation again after deleting unnecessary pairs.	Try the operation again after deleting unnecessary pairs.	–
82A08C	Hitachi Storage Navigator Modular 2 is less than Ver.5.00.		
	DMER82A08C: The SnapShot cache block for the S-VOL in the remote array is being deleted. Check the data pool LU status of the remote array and retry after waiting for a while.	Check the data pool LU status of the remote array and retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.00 or more.		
	DMER82A08C: This operation cannot be executed due to lack of resources within the remote array. Try the operation again after waiting for a while.	Try the operation again after waiting for a while.	–
82A08D	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82A08D: The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array. See the User's Guide for their detail information.	Check the status of the LU in the remote array. See the User's Guide for their detail information.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82A08D: The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array.	Check the status of the LU in the remote array.	–
82A090	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMER82A090: The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array. See the User's Guide for their detail information.	Check the status of the LU in the remote array. See the User's Guide for their detail information.	"User's Guide"
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMER82A090: The status of S-VOL in the remote array does not satisfy the condition to cascade with SnapShot pair. Check the status of the LU in the remote array.	Check the status of the LU in the remote array.	–
82A091	DMER82A091: The indicated Array ID is not same as the actual one for remote array. Confirm the Array ID for the remote array.	Confirm the Array ID for the remote array.	–
82A095	DMER82A095: The S-VOL in the remote array is undergoing the forced parity correction. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A097	DMER82A097: The S-VOL in the remote array received an illegal command. Check the status of the remote array.	Check the status of the remote array.	–
82A09A	DMER82A09A: The LU status of the S-VOL in the remote array is normal or other than regressed. Check the LU status of the remote array.	Check the LU status of the remote array.	–
82A09F	DMER82A09F: Splitting or deleting SnapShot pair is in progress. Retry after waiting for a while.	Retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82A0A0	DMER82A0A0: The remote array has no data pool. Create a data pool in the remote array.	Create a data pool in the remote array.	–
82A0A1	DMER82A0A1: .The LU specified as the S-VOL in the remote array is a data pool LU. The data pool LU cannot be set to an S-VOL. Check the data pool LU status of the remote array.	Check the data pool LU status of the remote array.	–
82A0A2	DMER82A0A2: The LU status of the S-VOL in the remote array is normal or other than regressed. Check the pool LU status of the remote array	Check the pool LU status of the remote array	–
82A0A3	DMER82A0A3: The data pool LU in the remote array is undergoing the forced parity correction. Check the pool LU status of the remote array and retry after waiting for a while.	Check the pool LU status of the remote array and retry after waiting for a while.	–
82A0A4	DMER82A0A4: The S-VOL in the remote array exceeded the total allowable maximum number of Remote Replication and SnapShot pairs. Check the status of the remote array. In addition, delete unnecessary pairs of the remote array.	Check the status of the remote array. In addition, delete unnecessary pairs of the remote array.	–
82A0A5	DMER82A0A5: The Remote Replication pair status of the S-VOL in the remote array is Failure. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0A6	DMER82A0A6: The Remote Replication pair status of the S-VOL in the remote array is Pool Full. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0A7	DMER82A0A7: The Remote Replication pair status of the S-VOL in the remote array is Split (no read/write allowed). Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0A8	DMER82A0A8: The Remote Replication pair status of the S-VOL in the remote array is Takeover (including Busy). Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0A9	DMER82A0A9: The Remote Replication pair status of the S-VOL in the remote array is Simplex. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0AA	DMER82A0AA: The Remote Replication pair status of the S-VOL in the remote array is Split. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0AB	DMER82A0AB: The Remote Replication pair status of the S-VOL in the remote array is not Simplex. Check the Remote Replication pair status of the remote array.	Check the Remote Replication pair status of the remote array.	–
82A0B4	DMER82A0B4: The S-VOL in the remote array does not exist on the default owner controller and, at the same time, the special processing cannot be continued. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0B5	DMER82A0B5: The S-VOL in the remote array does not exist on the default owner controller and at the same time an ownership of LU change for it has been started. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0B6	DMER82A0B6: The S-VOL in the remote array does not exist on the default owner controller and it has started an ownership of LU change. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82A0B7	DMER82A0B7: The S-VOL in the remote array does not exist on the default owner controller and at the same time an ownership of LU to be changed is blocked. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0B8	DMER82A0B8: The S-VOL in the remote array cannot change an ownership of LU and at the same time it is using the sequential buffer. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0B9	DMER82A0B9: The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
82A0BA	DMER82A0BA: The S-VOL in the remote array cannot change an ownership of LU and at the same time it has pinned data. Contact the service personnel.	Contact the service personnel.	–
82A0BB	DMER82A0BB: The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
82A0BC	DMER82A0BC: The S-VOL in the remote array cannot change an ownership of LU temporarily. Retry after waiting for a while.	Retry after waiting for a while.	–
82A0BD	DMER82A0BD: The S-VOL in the remote array cannot change an ownership of LU and a time-out occurred. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0BE	DMER82A0BE: The S-VOL in the remote array cannot change an ownership of LU, and the group number is illegal. Check the status of the remote array.	Check the status of the remote array.	–
82A0C0	DMER82A0C0: The S-VOL in the remote array does not exist on the default owner controller, and its disk drives are being spun up. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0C1	DMER82A0C1: The S-VOL in the remote array does not exist on the default owner controller, and the array is performing the system copy. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0C2	DMER82A0C2: The S-VOL in the remote array does not exist on the default owner controller, and the array is writing the configuration information. Check the status of the remote array and retry after waiting for a while.	Check the status of the remote array and retry after waiting for a while.	–
82A0D1	DMER82A0D1: The disk drives that configure a RAID group, to which a target LU in the remote array belongs have been spun down. Perform the operation again after spinning up the disk drives that configure the RAID group.	Perform the operation again after spinning up the disk drives that configure the RAID group.	–
82A0D2	DMER82A0D2: The S-VOL pool number in the remote array is not same as the one that is being used for SnapShot. Confirm the indicated data pool number in the remote array.	Confirm the indicated data pool number in the remote array.	–
82A0D3	DMER82A0D3: The license has expired. Purchase the license.	Purchase the license.	–
82A0DB	DMER82A0DB: The partition or pair partition to which the target LU belongs is incorrect. Check the partition number.	Check the partition number.	–
82A0DD	DMER82A0DD: The firmware internal error occurred. Retry after waiting for a while. If an error occurred again, contact the service personnel.	Retry after waiting for a while. If an error occurred again, contact the service personnel.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
82A0DE	DMER82A0DE: Auto Migration is being executed in the remote subsystem just now. Execute again after the Migration is completed.	Execute again after the Migration is completed.	–
82A0E1	DMER82A0E1: The operation to change LU has become timeout while the controller in the remote array is recovering. Retry the operation after the controller is recovered.	Retry the operation after the controller is recovered.	–
82A0E3	DMER82A0E3: The RAID group to which the S-VOL of the remote array belongs indicates a status other than Normal. Retry after the status becomes Normal.	Retry after the status becomes Normal.	–
82A0F2	DMER82A0F2: The process of reconfigure memory is in progress on the remote array. Retry after the process of reconfigure memory is completed.	Retry after the process of reconfigure memory is completed.	–

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9.3 List of Detail Codes of Sense Code (5/9FFF)

Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
010001	DMED010001: The same host group name exists in a port. Confirm the host group name and then try again.	Check if the host group name that has been entered is correct.	–
010002	DMED010002: The same WWN name exists in a port. Confirm the WWN name and then try again.	Check if the WWN nickname that has been entered is correct.	–
010003	DMED010003: WWN cannot be assigned to an undefined host group. Specify a defined host group and try again.	Check if the host group name to which the WWN has been assigned is actually the same as that to which you want to assign the WWN.	–
010004	DMED010004: The function cannot be executed because host group security on some port is set to enabled. Set host group security to disable on all ports and try again.	Disable the host group security of the LUN Manager function for all ports, and then lock or disable the LUN Manager function.	–
010005	DMED010005: The process cannot be performed because the target security on some port is set to enabled. Please set the target security to disable on all ports and try again.	Lock the LUN Manager function or disable the status after disabling all the Enable/Disable flags of the LUN Manager per iSCSI port in the LUN Manager function.	–
010006	DMED010006: The process cannot be performed because the specified name is default name of host group 0. Please confirm the name and try again.	Give the name other than G000 to the host group 1 or later.	–
020001	DMED020001: The value of Dirty Data Opportunity is outside the effective range. Specify the value in the effective range and try again.	Specify the trigger for de-staging dirty data as one of integers ranging from 1 to 50 and smaller than a trigger for stopping the de-staging of the dirty data.	–
020002	DMED020002: The value of Dirty Data Stop Opportunity is outside the effective range. Specify the value in the effective range and try again.	Specify the trigger for stopping the de-staging of dirty data as one of integers ranging from 0 to 49 and larger than a trigger for de-staging the dirty data.	–
020003	DMED020003: The value of Dirty Data Opportunity is equal to or less than value of Dirty Data Stop Opportunity. Specify the value and try again.	Set the value of Dirty Data Opportunity to be the value of Dirty Data Stop Opportunity or more.	–
020004	DMED020004: Prefetch Starting Opportunity is outside the effective range. Specify the value of effective range and try again.	Specify the trigger for starting the pre-fetch as one of integers ranging from 0 to 100.	–
020005	DMED020005: LU number is outside the effective range. Specify the LU number of effective range and try again.	Specify the default LUN of the performance tuning parameter as one of integers ranging from 0 to 2047.	–
020006	DMED020006: Reserved Random Simple Buffer Size is outside the effective range. Specify the value of effective range and try again.	Specify the size of the Reserved Random Simple Buffer as one of integers ranging from 0 to 100.	–
020007	DMED020007: The process failed due to an invalid parameter of Random Simple Buffer Size 0% Mode. Confirm the specified parameter.	Specify the size within the effective range.	–
020008	DMED020008: Prefetch Count is outside the effective range. Specify the value in the effective range and try again.	Specify the size within the effective range.	–
020009	DMED020009: Prefetch Size is outside the effective range. Specify the value in the effective range and try again.	Specify the size within the effective range.	–
02000A	DMED02000A: The process failed due to an invalid parameter of Next Prefetch Opportunity Mode. Confirm the specified parameter.	Specify the size within the effective range.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
02000B	DMED02000B: The process cannot be performed because the Multiple Stream Mode of system parameter is disabled. Please set the Multiple Stream Mode to enable then try again.	Please set the Multiple Stream Mode to enable then try again.	–
020010	DMED020010: Count of Judgment Sequential is outside the effective range. Specify the value in the effective range and try again.	Specify a value that falls within a valid range.	–
020011	DMED020011: Prefetch Size of Base is outside the effective range. Specify the value in the effective range and try again.	Specify a value that falls within a valid range.	–
020012	DMED020012: Prefetch Size of Fixed is outside the effective range. Specify the value in the effective range and try again.	Specify a value that falls within a valid range.	–
020013	DMED020013: The value of Dirty Data Opportunity is equal to or less than value of Dirty Data Stop Opportunity. Specify the value and try again.	Set the value of Dirty Data Opportunity to be the value of Dirty Data Stop Opportunity or more.	–
020014	DMED020014: The process cannot be performed because the specified Load Balancing value is outside the effective range. Please set up an effective value.	Set an effective value.	–
020015	DMED020015: The process cannot be performed because the specified Load Balancing Monitoring Time is outside the effective range. Please set up an effective value.	Please set up an effective value.	–
030001	DMED030001: The specified LU is already invalid. Confirm the LU status and try again.	Confirm the LU status and try again.	–
030002	DMED030002: The number of LU reached the maximum. Delete unnecessary LUs and try again.	Delete unnecessary LUs and try again.	–
030003	DMED030003: The specified LU is not invalid. Specify the invalid LU and try again.	Specify the invalid LU and try again.	–
030004	DMED030004: The specified LU capacity is equal to or more than the capacity of original LU. Confirm the LU capacity and try again.	Confirm the LU capacity and try again.	–
030006	DMED030006: The specified LU is not invalid. Specify the invalid LU and try again.	Specify the invalid LU and try again.	–
030007	DMED030007: The specified LU is unformatted. Specify a formatted LU and try again.	Specify a formatted LU and try again.	–
030008	DMED030008: The number of LU reached the maximum. Delete unnecessary LUs and try again.	Delete unnecessary LUs and try again.	–
030009	DMED030009: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Disable the LU, and then try again.	–
03000A	DMED03000A: The specified LU capacity is equal to or less than the minimum capacity of an LU. Specify a larger capacity than the minimum capacity and try again.	Specify a larger capacity than the minimum capacity and try again.	–
03000B	DMED03000B: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.	Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.	–
040001	DMED040001: The specified LUs contain Sub LU. Confirm the LU status and try again.	When formatting the unified LU, specify the Main LU.	–
040003	DMED040003: The specified LUs contain regressed or detached LU. Confirm the LU status and try again.	Confirm the LU status and try again.	–
040004	DMED040004: The specified LUs contain an un-mounted drive. Confirm the drive status and try again.	Confirm the drive status and try again.	–
040005	DMED040005: The specified LUs contains an invalid LU. Confirm the LU status and try again.	Confirm the LU status and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
040006	DMED040006: Someone already logged in. Set password protection function to disabled and try again.	Set password protection function to disabled and try again.	–
040007	DMED040007: There is no LU entered to format.	–	–
040008	Hitachi Storage Navigator Modular 2 is less than Ver.9.75.		
	DMED040008: Format of the logical unit cannot be performed under drive blockage mode. Please turn off the drive blockade mode system parameter.	Please turn off the drive blockade mode system parameter.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.75 or more.		
	DMED040008: Format of the logical unit cannot be performed under the Drive Detach Mode. Please turn off the Drive Detach Mode of system parameter.	Please turn off the Drive Detach Mode of system parameter.	–
040009	DMED040009: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.	Please change the attribute to Read/Write and set S-VOL mode to enable, then try again.	–
050001	DMED050001: The process cannot be performed, because the specified LU is having PIN data or is in a PIN exceeded state. Restore PIN data and try again.	The processing cannot be executed because PIN exists or the number of PIN segments exceeded the PIN threshold value. Execute the processing again after deleting the PIN segments of the specified LUs.	–
050002	DMED050002: The process cannot be performed because cache segment is insufficient. Wait for a while and then try again.	Perform the same operation again after waiting for a while.	–
050003	DMED050003: The process cannot be performed because the specified LU is receiving the Write command continuously from the host. Wait for a while and then try again.	Perform the same operation again after waiting for a while.	–
050004	DMED050004: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Retry after eliminating the Turbo or reserved Turbo LU.	–
050005	DMED050005: The process cannot be performed because the partition of necessary conditions for LU changing does not exist. Please confirm the partition definition and try again.	Check the partition number that was specified. Check if the capacity of the specified partition is larger than that of the LU. Check if the segment size is the same. Retry after eliminating the pinned segment of the specified LU or the partition to which the switching was made referring to Troubleshooting “Chapter 6. Details of Recovery Procedures”.	Troubleshooting “Chapter 6. Details of Recovery Methods” (TRBL 06-0000)
050006	DMED050006: The process cannot be performed because the directory configuration is changing. Please wait for a while and then try again.	Perform the operation again after determining the Cache partition change (the re-start-up).	–
050007	DMED050007: The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.	Perform the operation again.	–
050008	DMED050008: The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.	Perform the operation again	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
050009	Hitachi Storage Navigator Modular 2 is less than Ver.9.30.		
	DMED050009: The LU change could not be performed.	Perform the same operation again after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.30 or more.		
	DMED050009: The time out occurred by the LU changing. Please wait for a while and then try again.	Please wait for a while and then try again.	–
05000A	DMED05000A: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Perform the operation again	–
05000B	DMED05000B: The process cannot be performed because the controller of logical unit partition does not match or the partition number of logical unit is not same. Please specify the logical unit which uses the same controller's partition, or the same partition. When the partition of a logical unit is set as 0 or 1, please set a pair partition as auto.	It cannot be executed because a partition to which the target LU belongs or a pair partition is set to a sub-partition. Check the partition to which the target LU belongs and the setting of the partition, and execute it again.	–
05000C	DMED05000C: An internal program error occurred. Wait for a while and then try again. If the problem cannot be solved, contact the maintenance personnel.	If the problem cannot be solved, contact the maintenance personnel.	–
05000D	DMED05000D: The time out occurred by the LU changing during controller recovery. Please wait for a while and then try again.	Please wait for a while and then try again.	–
05000E	DMED05000E: The process cannot be performed because Remote Replication is in progress. Please retry after replacement completes.	Please retry after replacement completes.	–
05000F	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMED05000F: The operation to change the controllers that controls LU cannot be performed because the specified LU is a part of a ShadowImage pair and its pair status is Synchronizing or Reverse Synchronizing. Execute the operation when the pair status is neither Synchronizing nor Reverse Synchronizing.	Execute the operation when the pair status is neither Synchronizing nor Reverse Synchronizing.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.		
	DMED05000F: The operation to change the controllers that control logical unit cannot be performed because the status of the ShadowImage pair that the specified logical unit is a part of or the ShadowImage pairs that share the same P-VOL is Synchronizing or Reverse Synchronizing. Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.	Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.	–
050010	DMED050010: The operation to change the controllers that controls LU cannot be performed because the specified LU is a part of a Volume Migration pair and its pair status is COPY. Execute the operation when the pair status is not COPY.	Execute the operation when the pair status is not COPY.	–
050011	DMED050011: The operation to change the controllers that controls LU cannot be performed because Auto Migration is in progress. Execute the operation after Auto Migration is completed.	Execute the operation after Auto Migration is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
050012	DMED050012: The operation to change the controllers that control logical unit cannot be performed because the status of the ShadowImage pair that the specified logical unit is a part of or the ShadowImage pairs that share the same P-VOL is Synchronizing, Reverse Synchronizing, Split Pending or Paired Internally Synchronizing. Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.	Please execute the operation when the status of all the pairs is changed to Split, Paired or Failure.	–
070001	DMED070001: Cannot set dual ID success because either mounted numbers or types of the host interface boards are different between controllers. Confirm the interface boards status and try again.	Confirm the interface boards status and try again.	–
070002	DMED070002: The specified IP address is incorrect. Please specify a right IP address	Set a correct IP address.	–
070004	DMED070004: The High-speed Sequential Write Mode cannot be disabled because process of Write command from the hosts is not completed. Please wait for a while and then try again, or use the system parameter setting with reboot.	Please wait for a while and then try again, or use the system parameter setting with reboot.	–
070005	DMED070005: The Multiple Stream Mode and the High-speed Sequential Write Mode cannot be specified at the same time.	Since the multi stream mode and the high-speed sequential write mode are both ON, set only one mode.	–
070006	DMED070006: When the ShadowImage pair of an S-VOL Switch status exists the ShadowImage I/O Switch Mode cannot be disabled. Please retry after solving the error.	Turn off the ShadowImage I/O Switching mode after the pair in the special PSUE status disappears.	–
070007	DMED070007: The configuration of single or dual controller system cannot be changed because Cache Partition Manager is enabled. Please change Cache Partition Manager to de-installed or disabled and try again.	Perform the operation after invalidating or locking the of Cache Partition Manager which is an onerous option.	–
070008	DMED070008: The process cannot be performed because the specified port number is outside the effective range. Please confirm the port number.	Specify the correct (enable) TCP/IP port number.	–
070009	DMED070009: The port number of other controller cannot be set up. Please confirm the controller number.	Connect it to the Control Unit side which wants to be updated, and execute it again.	–
070010	DMED070010: The process cannot be performed because the specified secure port number is outside the effective range. Please confirm the secure port number.	Please confirm the secure port number.	–
070011	DMED070011: The secure port number of other controller cannot be set up. Please confirm the controller number.	Please confirm the controller number.	–
070012	DMED070012: The process cannot be performed because the non-secure port and secure port are same port number. Please set the different port number.	Please set the different port number.	–
070013	DMED070013: The process cannot be performed because the non-secure port status is changed by the non-secure port. Please retry by the secure port.	Please retry by the secure port.	–
070014	DMED070014: The process cannot be performed because the port number and the non-secure port status are changed at the same time. Please confirm the operation and try again.	Please confirm the operation and try again.	–
070015	DMED070015: The process cannot be performed because the non-secure port status of other controller is changed. Please confirm the controller number.	Please confirm the controller number.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
070016	DMED070016: The process cannot be performed because the specified port number is reserved. Please set the unreserved port number.	Please set the unreserved port number.	–
080001	DMED080001: The data pool cannot be used. Please restart the subsystem.	Restart the disk array system.	–
080002	DMED080002: The process cannot be performed because the logical unit under restoration. Wait for a while and try again.	Wait for a while and try again.	–
080003	DMED080003: The process cannot be performed because the logical unit added to the data pool is not specified.	–	–
080004	DMED080004: The process cannot be performed because the same logical unit number has been specified more than twice. Confirm the logical unit number and try again.	Confirm the logical unit number and try again.	–
080005	DMED080005: The specified logical unit number is outside of the effective range. Specify the logical unit number within the range and try again.	Specify an integer within the range of 0 to 2047 for the number of the LU to be assigned to the data pool.	–
080006	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.		
	DMED080006: The process cannot be performed because the specified logical unit is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again.	The status of the specified LU is neither normal nor regressed. Correct the status of the specified LU, and then assign the LU to the data pool.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.20 or more.		
	DMED080006: This process cannot be performed. The status of the specified logical unit must be in either normal or regressed state. Please verify the status of the logical unit and try again.	Please verify the status of the logical unit and try again.	–
080007	DMED080007: The process cannot be performed because the RAID level or HDU combination of the specified logical unit is not supported. Confirm the RAID level and the HDU combination currently supported and try again.	Confirm the RAID level and the HDU combination currently supported and try again.	–
080008	DMED080008: The process cannot be performed because the number of logical units in the data pool reached the maximum. Delete the logical units in the data pool and then try again.	Delete the logical units in the data pool and then try again.	–
080009	DMED080009: The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again.	Dissolve the unification of the specified LU, and then assign the LU to the data port.	–
08000A	DMED08000A: The process cannot be performed because the specified logical unit is a part of ShadowImage pair. Cancel the ShadowImage pair and try again.	Split the specified LU from the ShadowImage in-system replication pair, and then assign it to the data pool.	–
08000B	DMED08000B: The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.	Cancel the Remote Replication pair and try again.	–
08000C	DMED08000C: The process cannot be performed because the specified logical unit is a command device. Cancel the command device and try	Release the specified LU from the command device, and then assign it to the data pool.	–
08000D	DMED08000D: The process cannot be performed because the specified logical unit has been invalidated. Restore the logical unit and try again.	Restoration the specified LU, and then assign it to the data pool.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
08000E	DMED08000E: The process cannot be performed because the specified logical unit is a part of SnapShot pair or a SnapShot logical unit. Cancel the SnapShot pair or specify another logical unit and try again.	Cancel the SnapShot pair or specify another logical unit and try again.	–
08000F	DMED08000F: The process cannot be performed because the specified logical unit is defined as a SnapShot logical unit. Specify another logical unit and try again.	Specify another logical unit and try again.	–
080010	DMED080010: The process cannot be performed because the specified logical unit is added to a data pool. Specify another logical unit and try again.	The specified LU has already been assigned to the data pool. Check the LU structure.	–
080012	DMED080012: The process cannot be performed because the owner controller is different between the specified logical unit and the data pool. Confirm the logical unit owner controller and try again.	Change the controller that controls the specified LU, and then assign the LU to the data pool again.	–
080013	DMED080013: The process cannot be performed because the specified logical unit has been receiving the Write command continuously from the hosts. Wait for a while and then try again.	Wait for a while and then try again.	–
080014	DMED080014: The process cannot be performed because there is other logical unit changing the Default Controller. Wait for a while and then try again.	Wait for a while and then try again.	–
080015	DMED080015: The process cannot be performed because the specified logical unit is in the PIN exceeded state. Restore PIN data and try again.	Restore PIN data and try again.	–
080016	DMED080016: The process cannot be performed because the specified logical unit is not enough for sufficient cache blocks. Specify another logical unit and try again.	The size of the specified LU is too large. Check the LU structure and specify an LU whose size is appropriate and enables the LU to be assigned to the data pool.	–
080017	DMED080017: The process cannot be performed because no logical units in data pool.	Check if the specified data pool is the one from which you want to eliminate all the Lus. Also check whether all the Lus have already been eliminated from it or not.	–
080018	DMED080018: The process cannot be performed because the Snapshot pair exists in the specified data pool. Cancel the Snapshot pair and try again.	Perform the elimination after eliminating all the Snapshot images.	–
080019	DMED080019: The process cannot be performed because data pool deleted is not specified.	–	–
08001A	DMED08001A: The process cannot be performed because the threshold of usage rate in the data pool is not specified.	–	–
08001B	DMED08001B: The specified threshold is outside of the effective range. Specify the value of effective range and try again.	Specify the threshold value for the data pool as an integer within a range of 50 to 80 %.	–
08001C	DMED08001C: The process cannot be performed because the specified logical unit is capacity equal to or less than 2GB. Specify the logical unit of bigger capacity than 2GB and try again.	Specify the logical unit of bigger capacity than 2GB and try again.	–
08001D	DMED08001D: The process cannot be performed because S-VOL mode of the specified logical unit is disabled. Set S-VOL mode to enable then try again.	Invalidate the S-Vol disable mode and make the setting again.	–
08001F	DMED08001F: The number of specified logical units is over 64. Please specify the logical units in 64 or less.	Specify Lus less than the maximum number 64 of the pool Lus.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
080020	DMED080020: The process cannot be performed because the drive type of specified logical unit is different from the data pool. Please confirm the drive type and try again.	Please confirm the drive type and try again.	–
080021	DMED080021: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Residency LU or a reserved one. Disable the LU, and then try again.	–
080022	DMED080022: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Residency LU or a reserved one. Disable the LU, and then try again.	–
080023	DMED080023: The logical units in the data pool cannot be mixed with ones in Unit0 or in the latter units.	–	–
080024	DMED080024: The process cannot be performed because DM-LU is not defined. Please define DM-LU and then try again.	Please define DM-LU and then try again.	–
080025	DMED080025: The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
080026	DMED080026: The process cannot be performed because the number of logical units reached the system maximum. Please delete logical units in the data pool and try again.	Please delete logical units in the data pool and try again.	–
080027	DMED080027: The process cannot be performed because the number of logical units will reach the system maximum. Please delete logical units in the data pool and try again.	Please delete logical units in the data pool and try again.	–
080028	DMED080028: The logical unit in DP pool and a RAID group cannot be mixed to the same data pool. Please confirm the logical unit and then try again.	Please confirm the logical unit and then try again.	–
080029	DMED080029: The process cannot be performed because state of the DP pool which contains the specified logical unit is Detached. Please recover and then try again.	Please recover and then try again.	–
08002A	DMED08002A: The process cannot be performed because the status of DP pool consumed capacity is capacity depleted. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
08002B	DMED08002B: The process cannot be performed because the DP pool is being deleted. Please retry after the process completes.	Please retry after the process completes.	–
08002C	DMED08002C: The process cannot be performed because the DP pool is being created. Please retry after the process completes.	Please retry after the process completes.	–
08002D	DMED08002D: The process cannot be performed because the DP pool capacity is being added. Please retry after the process completes.	Please retry after the process completes.	–
08002E	DMED08002E: The process cannot be performed because the DP pool is being recovered. Please retry after the process completes.	Please retry after the process completes.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090001	DMED090001: The logical unit number of specified P-VOL is outside of the effective range. Specify the logical unit number of effective range and try again.	Specify the logical unit number of effective range and try again.	–
090003	DMED090003: The logical unit number of specified SnapShot logical unit is outside of the effective range. Specify the logical unit number of effective range and try again.	Specify the logical unit number of effective range and try again.	–
090004	DMED090004: The process cannot be performed because the logical unit number of the SnapShot logical unit created or deleted is not specified.	–	–
090005	DMED090005: The process cannot be performed because the same logical unit number has been specified as a SnapShot logical unit more than twice. Confirm the logical unit number and try again.	Confirm the logical unit number and try again.	–
090006	DMED090006: The process cannot be performed because the specified logical unit of the P-VOL is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again.	Specify the logical unit of normal or regressed state and try again.	–
090007	DMED090007: The process cannot be performed because no logical unit exists in the data pool by the side of the controller of specified P-VOL. Add the logical unit to the data pool and try again.	Add the logical unit to the data pool and try again.	–
090008	DMED090008: The process cannot be performed because the RAID level or HDU combination of the specified logical unit differs from the logical unit is not supported. Confirm the RAID level and the HDU combination currently supported and try again.	Confirm the RAID level and the HDU combination currently supported and try again.	–
090009	DMED090009: The process cannot be performed because the number of created SnapShot logical unit for the specified P-VOL has reached its maximum. Delete unnecessary SnapShot logical unit and try again.	Delete unnecessary SnapShot logical unit and try again.	–
09000A	DMED09000A: The logical unit number has already been defined. Specify a new number.	Specify a new number.	–
09000B	DMED09000B: The process cannot be performed because the specified P-VOL is a unified LU. Separate the unified LU and try again.	Separate the unified LU and try again.	–
09000C	DMED09000C: The process cannot be performed because the specified P-VOL is a part of ShadowImage pair. Cancel the ShadowImage pair and try again.	Cancel the ShadowImage pair and try again.	–
09000D	DMED09000D: The process cannot be performed because the specified P-VOL is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.	Cancel the Remote Replication pair and try again.	–
09000E	DMED09000E: The process cannot be performed because the specified P-VOL is a part of Snapshot pair. Cancel the Copy-on-write Snapshot pair and try again.	Cancel the Copy-on-write Snapshot pair and try again.	–
09000F	DMED09000F: The process cannot be performed because the specified P-VOL is a command device. Cancel the command device and try again.	Cancel the command device and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090010	DMED090010: The process cannot be performed because the specified P-VOL is invalid. Restore the LU and try again.	Restore the LU and try again.	–
090011	DMED090011: The process cannot be performed because the specified P-VOL has already been added to a data pool. Specify another LU number and try again.	Specify another LU number and try again.	–
090012	DMED090012: The process cannot be performed because the specified P-VOL is not enough for sufficient cache capacity. Check cache capacity and try again.	Check cache capacity and try again.	–
090013	DMED090013: The process cannot be performed because the HDU combination of the specified P-VOL differs from registered logical units to the data pool. Confirm the HDU combination and try again.	Confirm the HDU combination and try again.	–
090014	DMED090014: The process cannot be performed because the specified P-VOL has been receiving the Write command continuously from the hosts. Wait for a while and then try again.	Wait for a while and then try again.	–
090015	DMED090015: The process cannot be performed because there is other logical unit changing the Default Controller. Wait for a while and then try again.	Wait for a while and then try again.	–
090016	DMED090016: The process cannot be performed because the specified P-VOL is in the PIN exceeded state. Restore PIN data and try again.	Restore PIN data and try again.	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN over)" (TRBL 06-0690)
090017	DMED090017: The process cannot be performed because the specified P-VOL is not defined. Specify a defined logical unit and try again.	Specify a defined logical unit and try again.	–
090018	DMED090018: The process cannot be performed because the specified SnapShot logical unit has been creating the pair. Cancel the SnapShot pair and try again.	Cancel the SnapShot pair and try again.	–
090019	DMED090019: The process cannot be performed because P-VOL is under deletion. Wait for a while and then try again.	Wait for a while and then try again.	–
09001A	DMED09001A: The process cannot be performed because the specified set of P-VOL and SnapShot logical unit is not a pair. Confirm the pair status and try again.	Confirm the pair status and try again.	–
09001B	DMED09001B: The process cannot be performed because the number of SnapShot pair reached the maximum. Delete unnecessary SnapShot pair(s) and try again.	Delete unnecessary SnapShot pair(s) and try again.	–
09001C	DMED09001C: The process cannot be performed because the unified LU is composed of 17 or more sub logical units. Specify another logical unit and try again.	Specify another logical unit and try again.	–
09001D	DMED09001D: The process cannot be performed because the unified LU contains a sub logical unit whose size is less than 1GB. Specify another logical unit and try again.	Specify another logical unit and try again.	–
09001E	DMED09001E: The process cannot be performed because a management area of Snapshot is shortage. Delete unnecessary Snapshot pair(s) and try again.	Delete unnecessary Snapshot pair(s) and try again.	–
09001F	DMED09001F: The process cannot be performed because the drive type of specified logical unit is different from the V-VOL. Please confirm the drive type and try again.	Please confirm the drive type and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
090020	DMED090020: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Disable the LU, and then try again.	–
090021	DMED090021: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Disable the LU, and then try again.	–
090022	DMED090022: The process cannot be performed because the specified SnapShot logical unit is a part of Remote Replication pair. Cancel the Remote Replication pair and try again.	Cancel the Remote Replication pair and try again.	–
090023	DMED090023: The process cannot be performed because the specified SnapShot logical unit is a part of Hi-Copy pair. Cancel the Hi-Copy pair and try again.	Cancel the Hi-Copy pair and try again.	–
090024	DMED090024: The process cannot be performed because the P-VOL of specified SnapShot logical unit is reserved for cache partition modification. Please retry after cache partition modification is completed.	Please retry after cache partition modification is completed.	–
090025	DMED090025: The process cannot be performed because the specified V-VOL size will exceed the maximum of logical unit size. Please confirm the specified V-VOL size.	Please confirm the specified V-VOL size.	–
090026	DMED090026: The specified logical unit is not V-VOL. Please specify the logical unit number of V-VOL and try again.	Please specify the logical unit number of V-VOL and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0A0001	DMED0A0001: The process cannot be performed because the specified LU is invalid. Restore the LU and try again.	Specify a correct (valid) LU.	–
0A0002	DMED0A0002: The process cannot be performed because the specified LU is a Sub LU of the unifying LUs. Separate the unified LU and try again.	Specify a correct (valid) LU.	–
0A0003	DMED0A0003: The process cannot be performed because the specified LU is S-VOL of ShadowImage. Specify another logical unit and try again.	Specify a correct (valid) LU.	–
0A0004	DMED0A0004: The process cannot be performed because the specified LU is S-VOL of Remote Replication. Specify another logical unit and try again.	Specify another logical unit and try again.	–
0A0005	DMED0A0005: The process cannot be performed because the specified LU is SnapShot logical unit. Specify another logical unit and try again.	Specify another logical unit and try again.	–
0A0006	DMED0A0006: The process cannot be performed in the retention term. The retention term expires and try again.	Make the setting of the access level again after canceling the setting of the retention period.	–
0A0007	DMED0A0007: The process cannot be performed because ShadowImage is in progress. Please wait a moment and then try again.	Make the setting of the access level again after the restore is completed.	–
0A0008	DMED0A0008: The process cannot be performed because Snapshot is in progress. Please wait a moment and then try again.	Make the setting of the access level again after the restore is completed.	–
0A0009	DMED0A0009 : The retention term cannot be shortened. Specify the retention term is equal to or more than current value and try again.	Make the setting of the access level again after specifying the correct retention period.	–
0A000A	DMED0A000A : The process cannot be performed because expiration lock is enabled. Set expiration lock to disable and try again.	Make the setting of the access level again after invalidating the Audit Lock.	–
0A000B	DMED0A000B: The process cannot be performed because the status of ShadowImage pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.	Please retry after changing the status of pair.	–
0A000C	DMED0A000C: The process cannot be performed because the status of Remote Replication pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.	Please retry after changing the status of pair.	–
0A000D	DMED0A000D: The process cannot be performed because the status of SnapShot pair is not Split(PSUS). Please retry after changing the status of pair.	Please retry after changing the status of pair.	–
0A000E	DMED0A000E: The process cannot be performed because the status of Remote Replication pair is not Simplex(SMPL) or Split(PSUS). Please retry after changing the status of pair.	Please retry after changing the status of pair.	–
0B0001	DMED0B0001: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Make the Command device registration again after changing the access level to the normal mode.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0C0001	DMED0C0001: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Make the integration of LU again after changing the access level to the normal mode.	–
0C0002	DMED0C0002: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Make the separation of LU again after changing the access level to the normal mode.	–
0C0003	DMED0C0003: The unification cannot be performed because the drive type is different. Please confirm the drive type and try again.	Specify the LU on the drive of the same type and execute it again.	–
0C0004	DMED0C0004: The logical unit in Unit0 cannot be unified with the latter units.	–	–
0C0005	DMED0C0005: The process cannot be performed because the unified LU reached the maximum.	The number of unified Lus cannot be more the 128.	–
0C0006	DMED0C0006: The unification cannot be performed because the cache partition is different. Please confirm the cache partition of the specified logical unit.	Lus that belongs to different partitions cannot be unified.	–
0C0007	DMED0C0007: The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please retry after changing the cache partition, or specify another logical unit.	Perform the operation after fixing a partition to which the logical unit belongs.	–
0C0008	DMED0C0008: The total count of Main LU and Sub LU is over the maximum. Please specify 128 or fewer LUs.	Please specify 128 or fewer LUs.	–
0D0001	DMED0D0001: The process cannot be performed because the access level is set up to ReadOnly or Protect. Please change the attribute to Read/Write, and try again.	Make the setting of Priced Optional Features again after changing the access level to the normal mode.	–
0D0002	DMED0D0002: The process cannot be performed because the temporary key cannot be used for the next 180 days after it is locked or expired.	Retry 180 days later.	–
0D0003	DMED0D0003: The specified function has already been unlocked.	The unlocking cannot be done with the temporary key.	–
0E0001	DMED0E0001: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Retry after changing the access level to the normal mode.	–
0E0002	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMED0E0002: The process cannot be performed because the specified logical unit is a unified LU, and belongs to two or more RAID groups. Please separate the unified LU and try again.	Separate the sub-logical unit, which is created in the RAID Group different from the RAID Group of the main logical unit, from the main logical unit for the sub-logical unit where the specified main logical unit is integrated. Then, execute the setting for each logical unit.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20or more.		
	DMED0E0002: The process cannot be performed because the unified LU which belongs to two or more RAID groups exists. Please separate the unified LU and try again.	Please separate the unified LU and try again.	–
0E0003	DMED0E0003: The process cannot be performed because the specified logical unit is a Sub LU. Please specify a Main LU and try again.	Specify the main logical unit where the sub-logical unit is integrated.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0E0004	DMED0E0004: The process cannot be performed because the logical units number of the specified RAID group reach the maximum. Please confirm the RAID group and try again.	Since the maximum number of logical units is set in the specified RAID Group, specify other RAID Group.	–
0E0005	DMED0E0005: The process cannot be performed because the specified logical unit is DM-LU. Please specify another logical unit and try again.	In case of DM-LU, specify an X core.	–
0E0006	DMED0E0006: The process cannot be performed because the specified logical unit is V-VOL of SnapShot. Please specify the P-VOL and try again.	Since a V-VOL cannot be specified directly, specify a P-VOL of the Snapshot pair.	–
0E0007	DMED0E0007: The logical unit number for free area has already been used. Please specify unused logical unit number.	Please specify unused logical unit number.	–
0E0008	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMED0E0008: The logical unit number for free area is not assigned. Please confirm the specified logical unit number, or do not specify the logical unit number for free area and then try again.	Please confirm the specified logical unit number, or do not specify the logical unit number for free area and then try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.		
	DMED0E0008: The logical unit cannot be created. Please delete unnecessary logical units or specify automatically for free area and then try again.	Please delete unnecessary logical units or specify automatically for free area and then try again.	–
0E0009	DMED0E0009: The logical unit of RAID0 cannot be created by multiple free areas. Please confirm the specified area and then try again.	Please confirm the specified area and then try again.	–
0E000A	DMED0E000A: The free area does not exist. Please delete unnecessary logical units and then try again.	Please delete unnecessary logical units and then try again.	–
0E000B	Hitachi Storage Navigator Modular 2 is less than Ver.5.20.		
	DMED0E000B: The capacity of specified area is insufficient. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.5.20 or more.		
	DMED0E000B: The capacity of specified area is insufficient or the logical unit number to show the position of the free area is invalid. Please confirm the area and try again.	Please confirm the area and try again.	–
0E000C	DMED0E000C: The capacity of specified area is insufficient. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E000D	DMED0E000D: The logical units are over maximum. Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.	Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.	–
0E000E	DMED0E000E: The logical units of RAID group are over maximum. Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.	Please confirm the specified capacity or area number, or delete unnecessary logical units and then try again.	–
0E000F	DMED0E000F: The specified area number is outside of the effective range. Please specify the area number within the range and try again.	Please specify the area number within the range and try again.	–
0E0010	DMED0E0010: The specified area does not exist. Please confirm the area number and then try again.	Please confirm the area number and then try again.	–
0E0011	DMED0E0011: The logical unit number to show the position of the free area is outside of the effective range. Please specify the logical unit number within the range and then try again.	Please specify the logical unit number within the range and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0E0012	DMED0E0012: The logical unit number to show the position of the free area is outside of the effective range. Please specify the logical unit number within the range and then try again.	Please specify the logical unit number within the range and then try again.	–
0E0013	DMED0E0013: The logical unit number to show the position of the free area is not defined. Please specify a defined logical unit and then try again.	Please specify a defined logical unit and then try again.	–
0E0014	DMED0E0014: The logical unit number to show the position of the free area is not defined. Please specify a defined logical unit and then try again.	Please specify a defined logical unit and then try again.	–
0E0015	DMED0E0015: The logical unit number to show the position of the free area is not defined in specified RAID group. Please confirm the logical unit of specified RAID group and then try again.	Please confirm the logical unit of specified RAID group and then try again.	–
0E0016	DMED0E0016: The logical unit number to show the position of the free area is not defined in specified RAID group. Please confirm the logical unit of specified RAID group and then try again.	Please confirm the logical unit of specified RAID group and then try again.	–
0E0017	DMED0E0017: The logical unit number to show the position of the free area is invalid. Please confirm the logical unit and then try again.	Please confirm the logical unit and then try again.	–
0E0018	DMED0E0018: The specified area is overlapped. Please confirm the area and then try again.	Please confirm the area and then try again.	–
0E0019	DMED0E0019: The unused area is specified. Please confirm the area and then try again.	Please confirm the area and then try again.	–
0E001A	DMED0E001A: The unified LU reached the maximum. Please confirm the capacity or area number and then try again.	Please confirm the capacity or area number and then try again.	–
0E001B	DMED0E001B: The unified LU reached the maximum. Please confirm the capacity or area number and then try again.	Please confirm the capacity or area number and then try again.	–
0E001C	DMED0E001C: The RAID group is invalid. Please confirm the RAID group and then try again.	Please confirm the RAID group and then try again.	–
0E001D	DMED0E001D: The process cannot be performed because RAID level of specified logical unit is RAID0. Please specify another logical unit and then try again.	Please specify another logical unit and then try again.	–
0E001E	DMED0E001E: The capacity of logical unit is over maximum. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E001F	DMED0E001F: The specified capacity is invalid. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E0020	DMED0E0020: The unified LU reached the maximum. Please confirm the capacity or area number and then try again.	Please confirm the capacity or area number and then try again.	–
0E0021	DMED0E0021: The capacity of specified area is insufficient. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E0022	DMED0E0022: The capacity of specified area is insufficient. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E0023	Hitachi Storage Navigator Modular 2 is less than Ver.8.30.		
	DMED0E0023: The preparations of quick formatting are incomplete. Please retry after waiting for a while.	Please retry after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.30 or more.		
	DMED0E0023: The quick format size is over maximum value. Please retry after that specified quick format size is decreased or current executed quick format is finished.	Please retry after that specified quick format size is decreased or current executed quick format is finished.	System Parameter "3.3 [Note on LU setting]" (SYSPR 03-0130)

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
0E0024	DMED0E0024: The logical unit number is not defined. Please specify a defined logical unit and then try again.	Please specify a defined logical unit and then try again.	–
0E0025	DMED0E0025: The capacity of specified area is insufficient. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E0026	DMED0E0026: The specified capacity is over the logical unit capacity. Please confirm the capacity and then try again.	Please confirm the capacity and then try again.	–
0E0027	DMED0E0027: The process cannot be performed because the specified logical unit is not normal state. Please recover the status and then try again.	Please recover the status and then try again.	–
0E0028	DMED0E0028: The process cannot be performed because the specified logical unit contains an un-mounted drive or a blocked drive. Confirm the drive status and try again.	Confirm the drive status and try again.	–
0E0029	DMED0E0029: The process cannot be performed because the over provisioning threshold of the specified DP pool is equal to or more than the limit. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
0E002A	DMED0E002A: The process cannot be performed because the over provisioning threshold of the DP pool that has the specified logical unit is equal to or more than the limit. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
0E002B	DMED0E002B: The process cannot be performed because specified logical unit is mapped. Please delete mapping and then try again.	Please delete mapping and then try again.	–
0E002C	DMED0E002C: The process cannot be performed because the specified capacity will exceed the available maximum capacity of the subsystem. Please specify the capacity within the range of the available maximum capacity of the subsystem and then try again.	Please specify the capacity within the range of the available maximum capacity of the subsystem and then try again.	–
0F0001	DMED0F0001: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	–
0F0002	DMED0F0002: The process cannot be performed because the drives of Unit0 and the latter units are contained within the range of the specified RAID group.	Execute again by specifying the drive of the same type.	–
0F0003	DMED0F0003: The process cannot be performed because the non-supported drive on this subsystem are contained within the range of the specified RAID group.	Specify the drive for the subsystem concerned.	–
0F0005	DMED0F0005: The process cannot be performed because the number of drive is incorrect. Please confirm the mounted drive and try again.	Please confirm the mounted drive and try again.	–
0F0007	DMED0F0007: The number of defined RAID group reached the maximum. Delete unnecessary RAID groups and then try again.	Delete unnecessary RAID groups and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
100001	DMED100001: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Retry after changing the access level to the normal mode.	–
100002	DMED100002: The process cannot be performed because the RAID level of the specified logical unit is not supported. Confirm the RAID level currently supported and try again.	Confirm the RAID level currently supported and try again.	–
100003	DMED100003: The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again, or please execute online/offline formatting.	Separate the unified LU and try again, or please execute online/offline formatting.	–
100004	DMED100004: The process cannot be performed because the specified logical unit is extended and not formatted. Please execute online/offline formatting.	Please execute online/offline formatting.	–
100005	Hitachi Storage Navigator Modular 2 is less than Ver.8.30.		
	DMED100005:The preparations of quick formatting are incomplete. Please retry after waiting for a while.	Execute it again after waiting for a while.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.30 or more.		
	DMED100005: The quick format size is over maximum value. Please retry after that specified quick format size is decreased or current executed quick format is finished.	Please retry after that specified quick format size is decreased or current executed quick format is finished.	System Parameter "3.3 [Note on LU setting]" (SYSPR 03-0130)
100006	DMED100006: The process cannot be performed because the specified logical unit contain an un-mounted drive or a blocked drive. Confirm the drive status and try again.	Execute the quick format after installing or normalizing the drive in the RAID Group belonging to the specified LU.	–
100007	Hitachi Storage Navigator Modular 2 is less than Ver.9.75.		
	DMED100007: Format of the logical unit cannot be performed under drive blockage mode. Please turn off the drive blockade mode system parameter.	Execute the quick format after turning off the drive blockade mode of the system parameter.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.75 or more.		
	DMED100007: Format of the logical unit cannot be performed under the Drive Detach Mode. Please turn off the Drive Detach Mode of system parameter.	Please turn off the Drive Detach Mode of system parameter.	–
100008	DMED100008: The process cannot be performed because the specified logical unit is not formatted and set the access level other than S-VOL mode. Please change the attribute to Read/Write and try again.	Please change the attribute to Read/Write and try again.	–
110001	DMED110001: The mapping mode cannot be changed because the mapping guard LU exists.	When changing the mapping mode to OFF, take all the LU mapping guards OFF.	–
110002	DMED110002: The mapping information cannot be changed because the mapping guard LU exists.	Change the LU mapping after the LU mapping guard is taken OFF.	–
110003	DMED110003: The specified logical unit is not defined. Please specify a defined logical unit.	Please specify a defined logical unit.	–
120001	DMED120001: The specified drive cannot be defined as a spare drive because it is not supported on this subsystem.	Specify the drive for the subsystem concerned.	–
130001	DMED130001: The process cannot be performed because the path is not set up.	Set the time-out value after the path is defined.	–
130002	DMED130002: The process cannot be performed because the specified port is iSCSI port. Please confirm the port type and try again.	Please confirm the port type and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
130003	DMED130003: The process cannot be performed because remote ports of path0 and path1 are set to the same controller of the remote subsystem. Please set one of the remote ports to the other controller and try again.	Please set one of the remote ports to the other controller and try again.	–
130004	DMED130004: The process cannot be performed because the specified Timeout Period is outside the effective range. Please confirm the Timeout Period and try again.	Check the other's serial number of the subsystem and set a time-out value within the support range.	–
130005	DMED130005: The process cannot be performed because the specified bandwidth is outside the effective range. Please confirm the bandwidth and try again.	Please confirm the bandwidth and try again.	–
130006	DMED130006: The process cannot be performed because the path status is normal. Please confirm the status of path.	Please confirm the status of path.	–
130007	DMED130007: The process cannot be performed because the path does not exist. Please setting the path and try again.	Please setting the path and try again.	–
130008	DMED130008: The process cannot be performed because the path reconstruction is in progress. Please confirm the status of path and try again.	Please confirm the status of path and try again.	–
130009	DMED130009: The process cannot be performed because the path reconstruction is in progress. Please confirm the status of path and try again.	Please confirm the status of path and try again.	–
130010	DMED130010: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Please recover the controller status and then try again.	–
130011	DMED130011: The process cannot be performed because the path does not exist. Please setting the path and try again.	Please setting the path and try again.	–
130012	DMED130012: The process cannot be performed because the path does not exist. Please setting the path and try again.	Please setting the path and try again.	–
130013	DMED130013: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Please recover the controller status and then try again.	–
130014	DMED130014: The process cannot be performed because port are physically unequipped. Please confirm the port type and the subsystem status and try again.	Please confirm the port type and the subsystem status and try again.	–
130015	DMED130015: The process cannot be performed because the specified path is already defined. Please confirm the status of path and try again.	Please confirm the status of path and try again.	–
130016	DMED130016: The process cannot be performed because the Hosts is logging out. Please wait a moment and try again.	Please wait a moment and try again.	–
130017	DMED130017: The same array ID as a self subsystem is specified. Please specify the array ID of connected subsystem.	Please specify the array ID of connected subsystem.	–
130018	DMED130018: The process cannot be performed because the fibre channel port is not equipped. Please confirm the port type and try again.	Please confirm the port type and try again.	–
130019	DMED130019: The process cannot be performed because Remote Replication pair of Synchronizing or Paired exists. Please confirm the status of pair and try again.	Please confirm the status of pair and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
13001A	DMED13001A: The process cannot be performed because iSCSI port is physically unequipped. Please confirm the port type and try again.	Please confirm the port type and try again.	–
13001B	DMED13001B: The process cannot be performed because Distributed Mode is Hub. Please change Distributed Mode to Edge and try again.	Please change Distributed Mode to Edge and try again.	–
13001C	DMED13001C: The process cannot be performed because the remote path or remote port CHAP information (Target information) is defined. Please change Distributed Mode to Hub and try again.	Please change Distributed Mode to Hub and try again.	–
13001D	DMED13001D: The specified array ID is already registered. Please specify another array ID and then try again.	Please specify another array ID and then try again.	–
13001E	DMED13001E: The process cannot be performed because the remote path or remote port CHAP information (Target information) is specified. Please change Hub array unit and then try again.	Please change Hub array unit and then try again.	–
13001F	DMED13001F: The number of defined remote path reached the maximum. Please delete unnecessary remote path and try again.	Please delete unnecessary remote path and try again.	–
130020	DMED130020: The specified remote path name is already registered. Please specify another remote path name and then try again.	Please specify another remote path name and then try again.	–
130021	DMED130021: The specified remote array ID cannot be set because Distributed Mode is Hub. Please change Distributed Mode to Edge, or specify array ID of remote subsystem that Distributed mode is Edge and try again.	Please change Distributed Mode to Edge, or specify array ID of remote subsystem that Distributed mode is Edge and try again.	–
130022	DMED130022: The specified array ID does not exist. Please specify a right array ID.	Please specify a right array ID.	–
130023	DMED130023: The process cannot be performed because Distributed Mode is not supported. Please confirm the subsystem and try again.	Please confirm the subsystem and try again.	–
130024	DMED130024: The process cannot be performed because the remote path to two or more are defined. Please delete unnecessary remote path and try again.	Please delete unnecessary remote path and try again.	–
130025	DMED130025: The process cannot be performed because the remote port CHAP information (Target information) to two or more is defined. Please delete unnecessary remote port CHAP information (Target information) and try again.	Please delete unnecessary remote port CHAP information (Target information) and try again.	–
130026	DMED130026: The process cannot be performed because the Remote Replication pair exists to two or more subsystems. Please cancel the Remote Replication pair and try again.	Please cancel the Remote Replication pair and try again.	–
130027	DMED130027: The process cannot be performed because the remote path is defined on the subsystem whose Distributed Mode is not supported. Please delete unnecessary remote path and try again.	Please delete unnecessary remote path and try again.	–
130028	DMED130028: The process cannot be performed because the remote port CHAP information (Target information) is defined on the subsystem whose Distributed Mode is not supported. Please delete unnecessary remote port CHAP information (Target information) and try again.	Please delete unnecessary remote port CHAP information (Target information) and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
130029	DMED130029: The process cannot be performed because Remote Replication pair exists on the subsystem whose Distributed Mode is not supported. Please cancel unnecessary Remote Replication pair and try again.	Please cancel unnecessary Remote Replication pair and try again.	–
13002A	DMED13002A: The process cannot be performed because the remote path is defined. Please delete remote path and try again.	Please delete remote path and try again.	–
13002B	DMED13002B: The process cannot be performed because the remote port CHAP information (Target information) is defined. Please delete unnecessary remote port CHAP information (Target information) and try again.	Please delete unnecessary remote port CHAP information (Target information) and try again.	–
13002C	DMED13002C: The process cannot be performed because Distributed Mode is Hub. Please change Distributed Mode to Edge and try again.	Please change Distributed Mode to Edge and try again.	–
13002E	DMED13002E: The process cannot be performed because the specified array is not supported the Remote Replication connecting of iSCSI interface. Please specify the Fibre interface or confirm the array and try again.	Please specify the Fibre interface or confirm the array and try again.	–
130030	DMED130030: The process cannot be performed because the specified subsystem by array ID is not supported Remote Replication. Please confirm the array ID and try again.	Please confirm the array ID and try again.	–
130032	DMED130032: The process cannot be performed because the specified array is not supported the Remote Replication connecting of Fibre interface. Please specify the iSCSI interface or confirm the array and try again.	Please specify the iSCSI interface or confirm the array and try again.	–
140001	DMED140001: The process cannot be performed because the term of the temporary key or emergency key is expired.	Unlock with the permanent key.	–
140002	DMED140002: The process cannot be performed because the DM-LU has already been set. Please cancel the DM-LU and try again.	Retry after specifying an LU other than the DM-LU.	–
140003	DMED140003: The process cannot be performed because the specified operation mode is outside the effective range or two or more operation is specified at the same time. Please confirm the operation mode and try again.	Please confirm the operation mode and try again.	–
140004	DMED140004: The process cannot be performed because DC power supply is physically unequipped. Please confirm the subsystem status and try again.	Please confirm the subsystem status and try again.	–
140005	DMED140005: The function cannot be executed for this subsystem. Please confirm the subsystem.	Please confirm the subsystem.	–
140006	DMED140006: The process cannot be performed because cache memory size is insufficient. Please increase a larger cache memory and then try again.	Please increase a larger cache memory and then try again.	–
140007	DMED140007: The specified value is outside the effective range. Please specify the value in the effective range and try again.	Please specify the value in the effective range and try again.	–
150001	DMED150001: The process cannot be performed because the cache partition is not initial status. Please change the cache partition to initial status and try again.	Retry after returning the partition into the initial status.	–
150004	DMED150004: The process cannot be performed because the cache partition is less than minimum size. Please confirm the cache partition size and try again.	Change the partition size to an appropriate one.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
150005	DMED150005: The process cannot be performed because the PIN is exceeded state. Please restore PIN data and try again.	Retry after eliminating a pinned segment of the specified LU referring to Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)".	Troubleshooting "6.1.11 A Failure Occurred during Operation : Case 1 (PIN Over)" (TRBL 06-0690)
150006	DMED150006: The segment size of cache partition (0 or 1) cannot be changed.	A segment size of the master partition cannot be changed.	–
150007	DMED150007: The process cannot be performed because ShadowImage is in use. Please cancel the ShadowImage pair and try again.	Retry after dissolving the pair. (*1)	–
150009	DMED150009: The process cannot be performed because SnapShot is in use. Please cancel the SnapShot pair and try again.	Retry after dissolving the pair.	–
15000B	DMED15000B: The process cannot be performed because process of Write command from the hosts is not completed. Please wait for a while and then try again, or delete the logical unit.	Retry after eliminating the unwritten LU(s).	–
15000C	DMED15000C: The function cannot be executed because a Cache Residency LU or a reserved one exists. Disable the LU, and then try again.	Cancel the specification of the LU residence.	–
15000D	DMED15000D: The specified segment size is incorrect. Please confirm the segment size and try again.	Check the specified segment size.	–
15000E	DMED15000E: The process cannot be performed because the LU change is in progress. Please wait a moment and try again.	Retry after the change of the LU unit is completed.	–
15000F	DMED15000F: The specified cache partition number is incorrect. Please confirm the cache partition number and try again.	Specify Dir 0 for the partition #0 and Dir 1 for the partition #1.	–
150010	DMED150010: The controller of current cache partition cannot be changed. Please delete the cache partition, and set up again.	Define the LU again after eliminating it.	–
150011	DMED150011: The process cannot be performed because the total size of cache partition is over the cache capacity. Please confirm the cache partition size and try again.	Change the partition size to an appropriate one.	–
150012	DMED150012: The cache partition with which the logical unit is set up, or the cache partition of 0 or 1 cannot be deleted. Please confirm the cache partition number.	Change the partition size to an appropriate one.	–
150013	DMED150013: The process cannot be performed because the specified cache partition is not defined. Please specify a defined cache partition and try again.	Specify a partition that exists.	–
150014	DMED150014: The process cannot be performed because the stripe size of logical unit is not 64KB. Please delete the logical unit and try again.	Execute it again after deleting the LU concerned.	–
150015	DMED150015: The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Please cancel the Remote Replication pair and try again.	Please cancel the Remote Replication pair and try again.	–
150016	DMED150016: The process cannot be performed because the total cache partition capacity using the segment size of 4KB or 8KB is over the system limit. Please confirm the cache partition size or the segment size and try again.	Review the small segment size of the partition and the partition size.	–

*1 : When this is displayed at the time of the firmware download, the factor of "Since both P-Vol and S-Vol of one ShadowImage pair are P-Vol or S-Vol of TrueCopy, the downgrade cannot be performed" is considered.
In this case, release the target Shadow Image pair or True Copy pair, and execute it again.

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
160002	DMED160002: The process cannot be performed because the specified logical unit is a Sub LU of the unifying LUs. Please separate the unified LU and try again.	Please separate the unified LU and try again.	–
160011	DMED160011: The logical unit cannot be allocated the specified cache partition. Please specify another cache partition number and try again.	Check a number of the specified partition. A capacity of the partition is smaller than that of the LU.	–
160012	DMED160012: The process cannot be performed because the Cache Partition Manager is not installed, locked, or disabled.	Execute it again after unlocking the PP.	–
160013	DMED160013: The process cannot be performed because the specified logical unit is SnapShot logical unit. Please specify another logical unit number and try again.	Please specify another logical unit number and try again.	–
160014	DMED160014: The process cannot be performed because the specified cache partition is not defined. Please confirm the cache partition and try again.	Specify the enable partition.	–
160015	DMED160015: The process cannot be performed because Cache Partition Manager is not installed, locked, or disabled. Please install Cache Partition Manager and try again.	Execute it again after unlocking the PP.	–
160016	DMED160016: The process cannot be performed because the specified cache partition is not defined. Please confirm the cache partition and try again.	Specify the enable partition.	–
160017	DMED160017: The process cannot be performed because the specified cache partition is set to the different controller. Please confirm the cache partition and try again.	Match the directory number.	–
160018	DMED160018: The process cannot be performed because the combination of stripe size and segment size does not match. Please confirm the stripe size or the cache partition, and try again.	Change it to the partition to which the stripe size or the segment size adapts.	–
160019	DMED160019: The process cannot be performed because the specified cache partition size is insufficient. Please confirm the cache partition and try again.	Change it to the partition whose partition size is sufficient.	–
16001E	DMED16001E: The process cannot be performed because the pair cache partition and the cache partition are set to the same controller. Please confirm the cache partition and try again.	Change the directory number.	–
16001F	DMED16001F: The process cannot be performed because the segment size does not match. Please confirm the segment size of cache partition and try again.	Change it to the partition whose segment size is equal.	–
160020	DMED160020: The process cannot be performed because the specified cache partition size is insufficient. Please confirm the cache partition and try again.	Change it to the partition whose partition size is sufficient.	–
160021	DMED160021: The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.	Execute it again after completing the LU unit switching.	–
160022	DMED160022: The process cannot be performed because PIN data exists. Please restore PIN data and try again.	Execute it again after deleting the PIN segment of the specified LU referring to "Troubleshooting Chapter 6. Details of Recovery Methods".	Troubleshooting "Chapter 6. Details of Recovery Methods" (TRBL 06-0000)

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
170001	DMED170001: The process cannot be performed because the specified logical unit is capacity less than 5GB. Specify the logical unit is equal to or more than 5GB and try again.	Specify an LU whose capacity is 5 Gbytes or larger.	–
170002	DMED170002: The process cannot be performed because the specified logical unit is RAID level 0. Specify another logical unit and try again.	Retry after specifying an LU whose RAID level is other than RAID 0.	–
170003	Hitachi Storage Navigator Modular 2 is less than Ver.7.20.		
	DMED170003: The process cannot be performed because the specified logical unit is neither in normal nor in regressed state. Specify the logical unit of normal or regressed state and try again.	Set the specified LU as an object of the differential control after relieving it of command device.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.20 or more.		
	DMED170003: This process cannot be performed. The status of the specified logical unit must be in either normal or regressed state. Please verify the status of the logical unit and try again.	Please verify the status of the logical unit and try again.	–
170004	DMED170004: The process cannot be performed because the specified logical unit is a unified LU. Separate the unified LU and try again.	Specify an LU other than a unified LU.	–
170005	DMED170005: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Specify an LU other than a Turbo LU (reserved Turbo LU).	–
170006	DMED170006: The process cannot be performed because the specified logical unit is a command device. Cancel the command device and try again.	Specify an LU that is not a command device.	–
170007	DMED170007: The process cannot be performed because the specified logical unit is capacity less than 10GB. Specify the logical unit is equal to or more than 10GB and try again.	Specify the logical unit is equal to or more than 10GB and try again.	–
170008	DMED170008: The process cannot be performed because the capacity of DP pool is insufficient. Please wait a moment and then try again. If you cannot set up again, please grow the capacity of DP pool.	Please wait a moment and then try again. If you cannot set up again, please grow the capacity of DP pool.	–
170009	DMED170009: The process cannot be set to DM-LU because specified logical unit is mapped. Please delete mapping and then try again.	Please delete mapping and then try again.	–
180001	DMED180001: The specified logical unit cannot be set as Cache Residency LU because its cache partition is not 0 or 1. Please try again after changing a cache partition into 0 or 1, or specify the logical unit of the cache partition 0 or 1.	Retry after specifying an LU that belongs to the master partition or changing the specified LU to the master partition.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
190001	DMED190001: The specified IP address is incorrect. Please specify a correct IP address.	Specify a correct IP address.	–
190002	DMED190002: The same IP address as the management LAN cannot be set up. Please specify a correct IP address.	Specify a correct IP address.	–
190003	DMED190003: The process cannot be performed because NNC or subsystem is in progress. Please wait a moment and then try again.	Make the setting again after waiting for a while.	–
190004	DMED190004: The same IP address as the maintenance LAN cannot be set up. Please specify a correct IP address.	Specify a correct IP address.	–
190005	DMED190005: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Execute the process again after restoring the Control Unit of the other system.	–
190006	DMED190006: The process cannot be performed because NNC or subsystem is in progress. Please wait a moment and then try again.	Make the setting again after waiting for a while.	–
190007	DMED190007: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Make the setting again after waiting for a while.	–
190008	DMED190008: The same IP address as the NNC LAN cannot be set up. Please specify a correct IP address.	Specify a correct IP address.	–
190009	DMED190009: The maintenance LAN cannot be changed automatically because the same network address is specified as a maintenance LAN when NNC is connected. Please confirm the specified network address and try again.	Please confirm the specified network address and try again.	–
19000B	DMED19000B: The specified host address of the maintenance LAN is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
19000C	DMED19000C: The process cannot be performed because the subnet mask of the management LAN is incorrect. Please set up the correct subnet mask and try again.	Please set up the correct subnet mask and try again.	–
19000D	DMED19000D: The process cannot be performed because the default gateway of the management LAN is incorrect. Please set up the correct default gateway and try again.	Please set up the correct default gateway and try again.	–
19000E	DMED19000E: The DHCP and the maintenance LAN automatic change cannot be specified at the same time. Please confirm the operation and try again.	Please confirm the operation and try again.	–
19000F	DMED19000F: The specified host address of the management LAN is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
190010	DMED190010: The process cannot be performed because the segment is different between the management LAN and default gateway. Please specify a correct IP address.	Please specify a correct IP address.	–
190011	DMED190011: The process cannot be performed because the maintenance LAN automatic change mode is enabled. Please set this mode to disable and try again.	Turn off the “Maintenance Port IP Address Automatic Change Mode”, and execute it again.	System Parameter “4.2 Configuration Settings (3) Setting of LAN” (SYPR 04-0120)
190012	DMED190012: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Make the setting again after waiting for a while.	–
190013	DMED190013: The specified IP address is incorrect. Please specify a correct IP address.	Set an IP address with a valid numerical value.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1A0001	DMED1A0001: The process cannot be performed because NNC is not connected. Please connect NNC and try again.	Check the Interface Board.	–
1A0002	DMED1A0002: The specified logical unit is not defined. Please specify a defined logical unit.	Specify an LU that has been defined.	–
1A0003	DMED1A0003: The process cannot be performed because the specified logical unit is less than minimum size of System LU. Please confirm the logical unit size and try again.	Specify an LU whose size is larger than the minimum indispensable size to the system LU.	–
1A0004	DMED1A0004: The process cannot be performed because the specified logical unit is already assigned. Please specify a logical unit that is not assigned and try again.	Specify an LU that has not been mapped.	–
1A0005	DMED1A0005: The process cannot be performed because the specified logical unit is S-VOL of ShadowImage. Please specify another logical unit and try again.	Specify an LU other than the S-VOL of the ShadowImage in-system replication.	–
1A0006	DMED1A0006: The process cannot be performed because the specified logical unit is S-VOL of Remote Replication. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
1A0007	DMED1A0007: The process cannot be performed because the specified logical unit is defined as a SnapShot logical unit. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
1A0008	DMED1A0008: The process cannot be performed because the specified logical unit is added to a data pool. Please specify another logical unit and try again.	Specify an LU other than the POOL of the Copy-on-write SnapShot.	–
1A0009	DMED1A0009: The process cannot be performed because the specified logical unit is a Sub LU of the unifying LUs. Please specify another logical unit and try again.	Specify an LU other than the sub-LU of a unified LU.	–
1A000A	DMED1A000A: The process cannot be performed because the specified logical unit is the mapping guard LU. Please specify another logical unit and try again.	Specify an LU that is not guarded from the mapping.	–
1A000B	DMED1A000B: The process cannot be performed because the specified logical unit is a command device. Please specify another logical unit and try again.	Specify an LU other than the command device.	–
1A000C	DMED1A000C: The specified logical unit is not defined as a command device. Please specify a logical unit that is already defined to a command device.	For the system LU, HLU5, specify an LU other than the command device.	–
1A000D	DMED1A000D: The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.	Check the status of the NAS OS.	–
1A000E	DMED1A000E: The process cannot be performed because the specified logical unit is DM-LU. Please specify another logical unit and try again.	Specify an LU other than the DM-LU.	–
1A000F	DMED1A000F: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	For the system LU, specify an LU whose access level is the normal mode.	–
1A0010	DMED1A0010: The process cannot be performed because all ports are used for NAS. Please confirm the port type.	Please confirm the port type.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1A0020	DMED1A0020: The process cannot be performed because System LU exists.	Specify an LU other than the system LU.	–
1A0021	DMED1A0021: The process cannot be performed because User LU exists.	Specify an LU other than the user LU.	–
1A0022	DMED1A0022: The process cannot be performed because the specified logical unit is System LU. Please release System LU and try again.	Perform an LU unification/dissolution after removing the LU from being the system LU.	–
1A0023	DMED1A0023: The process cannot be performed because the specified logical unit is User LU. Please specify another logical unit and try again.	Specify an LU other than the user LU for the sub-LU.	–
1A0024	DMED1A0024: The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.	Check the status of the NAS OS.	–
1A0025	DMED1A0025: The process cannot be performed because NAS OS is in progress. Please confirm NAS OS status and then try again.	Check the status of the NAS OS.	–
1A0026	DMED1A0026: The specified port is used for NAS. Please specify another port.	Specify an LU other than the NAS Port.	–
1A0027	DMED1A0027: The unification cannot be performed because the stripe size does not match. Please confirm the stripe size of logical unit and try again.	Specify the LU of the same stripe size.	–
1A0028	DMED1A0028: The process cannot be performed because the specified logical unit is P-VOL or V-VOL of SnapShot. Please specify another logical unit and try again.	Specify the LU other than the P-VOL or the V-VOL of the Copy-on-write SnapShot.	–
1A0029	DMED1A0029: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write. When the mode is set up, please reset the mode using RAID Manager. And try again.	Specify the LU of the normal mode and S-VOL Disable of the access level for the user LU.	–
1A002A	DMED1A002A: The process cannot be performed because the specified logical unit is being used as ShadowImage pair with more than 2 S-VOL. Please delete S-VOL and make the pair into one-to-one relation, or cancel the pair, and then try again.	Execute it again after setting the number of mirrors of the S-VOL to 1.	–
1A0030	DMED1A0030: The Command Device(secondary) cannot set to the NNCtype1.	Check the types of the NAS heads.	–
1A0031	DMED1A0031: The Working Area for Dump cannot set to this NNCtype2.	Check the types of the NAS heads.	–
1A0032	DMED1A0032: The process cannot be performed because the Command Device is not set by system LU. Please set the Command Device and try again.	Check the setting status of the NAS Command Device, and then set the NAS Command Device (secondary).	–
1A0033	DMED1A0033: The process cannot be performed because the Command Device(secondary) is set by system LU. Please release the Command Device(secondary) and try again.	Release it from the NAS Command Device (secondary).	–
1A0034	DMED1A0034: The process cannot be performed because the equipped NNC is unknown or mixture.	Check the configuration status of the connection NAS heads.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1A0070	DMED1A0070: The process cannot be performed because the equipped NNC is NNCtype2.	Check the configuration status of the connection NAS heads.	–
1A0071	DMED1A0071: The process cannot be performed because the NAS OS is not installed. Please install the NAS OS and try again.	Check the installation status of the NAS OS.	–
1A0072	DMED1A0072: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Recover the Control Unit, and then execute it again.	–
1A0073	DMED1A0073: The process cannot be performed because the NNC is not stopped. Please stop the NNC and try again.	Put the NNC status of both NNCs (NAS Units) into the stop status, and then execute it again.	–
1A0074	DMED1A0074: The process cannot be performed because the equipped NNC is NNCtype1.	Check the configuration status of the connection NAS heads.	–
1A0075	DMED1A0075: The process cannot be performed because the system LU is not backed up.	A version downgrade instruction cannot be performed.	–
1A0076	DMED1A0076: The process cannot be performed because the NNC is not stopped or detached.	Put the NNC status of both NNCs (NAS Units) into the stop status (blocked status), and then execute it again.	–
1A0077	DMED1A0077: The process cannot be performed because the system LU is not backed up.	An instruction to release the version downgrade cannot be performed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1B0001	DMED1B0001: The specified IP address is incorrect. Please specify a correct IP address.	Specify the correct (enabled) IP address.	–
1B0002	DMED1B0002: It is impossible to change to specified IP address. Please specify a correct IP address.	Specify the correct (enabled) IP address.	–
1B0003	DMED1B0003: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Execute it again after waiting for a while.	–
1B0004	DMED1B0004: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Check the status of the subsystem.	–
1B0005	DMED1B0005: The process cannot be performed because the DHCP is enabled. Please set the DHCP to disable and try again.	Turn off the DHCP mode.	System Parameter "4.2 Configuration Settings (3) Setting of LAN" (SYPR 04-0120)
1B0006	DMED1B0006: The process cannot be performed during the maintenance LAN setting. Please wait a moment and then try again.	Execute it again after waiting for a while.	–
1B0008	DMED1B0008: The process cannot be performed because the DHCP is enabled. Please set the DHCP to disable and try again.	Turn off the "DHCP Mode", and execute it again.	System Parameter "4.2 Configuration Settings (3) Setting of LAN" (SYPR 04-0120)
1B0009	DMED1B0009: The process cannot be performed because NNC is equipped. Please confirm the port type and try again.	Make all the ports the FC port configuration, and execute it again.	–
1B000A	DMED1B000A: The process cannot be performed because the same address is specified as the maintenance LAN and the management LAN. Please specify the different address and try again.	Specify different addresses for the IP addresses of the user port and the maintenance port.	–
1C0001	DMED1C0001: The process cannot be performed because iSCSI port is physically unequipped. Please confirm the port type and try again.	Specify the iSCSI port.	–
1C0002	DMED1C0002: The process cannot be performed because the authentication method is not specified. Please confirm the authentication method and try again.	Specify the authentication method.	–
1C0003	DMED1C0003: The process cannot be performed because the specified alias format is invalid. Please confirm the alias and try again.	Specify the correct Target Nickname.	–
1C0004	DMED1C0004: The process cannot be performed because the same alias exists in a port. Please confirm the alias and try again.	Specify the unique Target Nickname in the port.	–
1C0005	DMED1C0005: The process cannot be performed because the specified iSCSI Name format is invalid. Please confirm iSCSI Name and try again.	Specify the correct Target iSCSI Name.	–
1C0006	DMED1C0006: The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.	Specify the unique Target iSCSI Name in the port.	–
1C0007	DMED1C0007: The process cannot be performed because the specified target is not defined. Please confirm the target and try again.	Specify the correct Target ID.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1C0008	DMED1C0008: The process cannot be performed because the specified name format is invalid. Please confirm the name and try again.	Specify the correct Initiator Nickname.	–
1C0009	DMED1C0009: The process cannot be performed because the same name exists in a port. Please confirm the name and try again.	Specify the unique Initiator Nickname in the port.	–
1C000A	DMED1C000A: The process cannot be performed because the specified iSCSI Name format is invalid. Please confirm iSCSI Name and try again.	Specify the correct Initiator iSCSI name.	–
1C000B	DMED1C000B: The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.	Specify the unique Initiator iSCSI name in the port.	–
1C000C	DMED1C000C: The process cannot be performed because the term of the temporary key or emergency key is expired.	Unlock it with the permanent key.	–
1C000D	DMED1C000D: The process cannot be performed because the invalid character is specified. Please confirm the user name and try again.	Specify the Initiator User Name with the characters which can be used.	–
1C000E	DMED1C000E: The process cannot be performed because the invalid character is specified. Please confirm the secret and try again.	Specify the Initiator Secret with the characters which can be used.	–
1C000F	DMED1C000F: The process cannot be performed because the character length of user name is outside the effective range. Please confirm the user name and try again.	Specify the Initiator User Name with the correct number of characters.	–
1C0010	DMED1C0010: The process cannot be performed because the character length of secret is outside the effective range. Please specify the secret of 12 to 32 characters and try again.	Specify the Initiator Secret Name with the correct number of characters.	–
1C0011	DMED1C0011: The process cannot be performed because the specified IP address is incorrect. Please specify a correct IP address.	Specify the correct value.	–
1C0012	DMED1C0012: The process cannot be performed because the specified port number is incorrect. Please specify a correct port number.	Specify the correct value.	–
1C0013	DMED1C0013: The process cannot be performed because Keep Alive Timer is outside the effective range. Please specify Keep Alive Timer of 30 to 64800 and try again.	Specify the correct value.	–
1C0014	DMED1C0014: The process cannot be performed because the specified port number is incorrect. Please specify a correct port number.	Specify the correct value.	–
1C0015	DMED1C0015: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Execute it again after waiting for a while.	–
1C0017	DMED1C0017: The process cannot be performed because the character length of iSCSI Name is outside the effective range. Please confirm iSCSI Name and try again.	Specify it with the correct number of characters.	–
1C0018	DMED1C0018: The process cannot be performed because the invalid character is specified. Please confirm iSCSI Name and try again.	Specify it with the characters which can be used.	–
1C0019	DMED1C0019: The process cannot be performed because the character length of iSCSI Name is outside the effective range. Please confirm iSCSI Name and try again.	Specify it with the correct number of characters.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1C001A	DMED1C001A: The process cannot be performed because the invalid character is specified. Please confirm iSCSI Name and try again.	Please confirm iSCSI Name and try again.	–
1C001B	DMED1C001B: The process cannot be performed because the controller is detached. Please recover the controller status and then try again.	Specify the correct Port number.	–
1C001C	DMED1C001C: The process cannot be performed because the specified IP address is incorrect. Please specify a correct IP address.	Specify the correct IP address.	–
1C001D	DMED1C001D: The process cannot be performed because the ping is executing. Please try again after the ping is completed.	Execute it after completing Ping.	–
1C001E	DMED1C001E: The process cannot be performed because the specified CHAP algorithm is incorrect. Please specify a correct CHAP algorithm and try again.	Specify the correct Target authentication algorithm.	–
1C001F	DMED1C001F: The process cannot be performed because the character length of secret is outside the effective range. Please specify the secret of 12 to 32 characters and try again.	Specify it with the correct number of Target Secret characters.	–
1C0020	DMED1C0020: The process cannot be performed because the invalid character is specified. Please confirm the secret and try again.	Specify it with the characters which can be used.	–
1C0021	DMED1C0021: The process cannot be performed because the invalid character is specified. Please confirm the user name and try again.	Specify it with the characters which can be used.	–
1C0022	DMED1C0022: The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.	Specify the unique Target User Name in the port.	–
1C0023	DMED1C0023: The process cannot be performed because the LUN Manager is not installed, locked, or disabled. Please install the LUN Manager and then try again.	Execute it again after unlocking or enabling the LUN Management priced option.	–
1C0024	DMED1C0024: The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.	Execute it again after enabling the port security of the PORT concerned.	–
1C0025	DMED1C0025: The process cannot be performed because the character length of alias is outside the effective range. Please confirm the alias and try again.	Specify it with the correct number of characters.	–
1C0026	DMED1C0026: The process cannot be performed because the invalid character is specified. Please confirm the alias and try again.	Specify it with the characters which can be used.	–
1C0027	DMED1C0027: The process cannot be performed because the character length of name is outside the effective range. Please confirm the name and try again.	Specify it with the correct number of characters.	–
1C0028	DMED1C0028: The process cannot be performed because the invalid character is specified. Please confirm the name and try again.	Specify it with the characters which can be used.	–
1C0029	DMED1C0029: The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.	Specify the unique Initiator User Name in the port.	–
1C002A	DMED1C002A: The process cannot be performed because the specified target is not defined. Please confirm the target and try again.	Check the status of the Target.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1C002B	DMED1C002B: The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.	Please set the target security to enable and try again.	–
1C003A	DMED1C003A: The process cannot be performed because the target security is disabled. Please set the target security to enable and try again.	Please set the target security to enable and try again.	–
1C003B	DMED1C003B: The process cannot be performed because the specified alias is default name of Target 0. Please confirm the alias and try again.	Please confirm the alias and try again.	–
1C003C	DMED1C003C: The process cannot be performed because the specified iSCSI Name is default name of Target 0. Please confirm iSCSI Name and try again.	Please confirm iSCSI Name and try again.	–
1C003D	DMED1C003D: The process cannot be performed because the same alias exists in a port. Please confirm the alias and try again.	Please confirm the alias and try again.	–
1C003E	DMED1C003E: The process cannot be performed because the same iSCSI Name exists in a port. Please confirm iSCSI Name and try again.	Please confirm iSCSI Name and try again.	–
1C003F	DMED1C003F: The process cannot be performed because the same user name exists in a port. Please confirm the user name and try again.	Please confirm the user name and try again.	–
1C0040	DMED1C0040: The process cannot be performed because the specified host group or target is outside the effective range. Please confirm the host group or target and try again.	Please confirm the host group or target and try again.	–
1C0041	DMED1C0041: The information cannot be obtained because iSCSI port is physically unequipped. Please confirm the port status and try again.	Please confirm the port status and try again.	–
1C0042	DMED1C0042: The specified MTU is incorrect. Please specify a correct MTU.	Please specify a correct MTU.	–
1C0043	DMED1C0043: The process cannot be performed because the specified MTU value is not set to equipped interface board. Please confirm the MTU value.	Please confirm the MTU value.	–
1C0050	DMED1C0050: The process cannot be performed because the Digest is not set to equipped interface board. Please confirm the interface board type.	Please confirm the interface board type.	–
1D0001	DMED1D0001: The process cannot be performed during the SNMP setting. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1E0001	DMED1E0001: The process cannot be performed because the cycle time is out of range. Please specify the cycle time of 30 to 3600 and try again.	Please specify the cycle time of 30 to 3600 and try again.	–
1E0002	DMED1E0002: The process cannot be set because the specified cycle time is less than the minimum value. Please confirm the cycle time and try again.	Please confirm the cycle time and try again.	–
1E0003	DMED1E0003: The process cannot be performed because the specified Queuing Inhibition Time is outside the effective range. Please confirm the Queuing Inhibition Time and try again.	Please confirm the Queuing Inhibition Time and try again.	–
1E0004	DMED1E0004: The process cannot be performed because the specified function is not supported on this subsystem. Please confirm the subsystem and try again.	Please confirm the subsystem and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1E0010	DMED1E0010: The process cannot be performed because the Remote Replication pair exists. Please cancel the Remote Replication pair and try again.	Please cancel the Remote Replication pair and try again.	–
1E0011	DMED1E0011: The process cannot be performed during the Remote Replication pair deleting. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1E0012	DMED1E0012: The process cannot be performed because the specified logical unit is a part of Remote Replication pair. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
1E0013	DMED1E0013: The process cannot be performed because the deallocation of cache blocks for SnapShot is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1E0014	DMED1E0014: The process cannot be performed because the subsystem is not restarted after Remote Replication is installed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
1E0015	DMED1E0015: The process cannot be performed because the subsystem is not restarted after Remote Replication or SnapShot is installed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
1E0016	DMED1E0016: The process cannot be performed because the subsystem is not restarted after Remote Replication or SnapShot is de-installed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
1E0017	DMED1E0017: The process cannot be performed because the status of Remote Replication pair is improper. Please confirm the status of pair and try again.	Please confirm the status of pair and try again.	–
1F0001	DMED1F0001: The Spare Drive Operation Mode is fixed and the Applying No Copy Back Mode on All the Units is enabled. This combination is not possible to specify. Please confirm the operation and try again.	Please confirm the operation and try again.	–
1F0010	DMED1F0010: The process failed due to an invalid parameter. Please confirm the specified value.	Please confirm the specified value.	–
1F0011	DMED1F0011: The process cannot be performed because the specified IP address is incorrect. Please confirm the IP address and try again.	Please confirm the IP address and try again.	–
1F0012	DMED1F0012: The process cannot be performed because the same IP address is specified to Syslog Server 1 and Syslog Server 2. Please confirm the IP address and try again.	Please confirm the IP address and try again.	–
1F0013	DMED1F0013: The process failed due to an invalid parameter. Please confirm the specified value.	Please confirm the specified value.	–
1F0014	DMED1F0014: The process cannot be performed because the internal log is disabled. Please set the internal log to enable and try again.	Please set the internal log to enable and try again.	–
1F0015	DMED1F0015: The process cannot be performed because the internal log is being exported. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1F0017	DMED1F0017: The process cannot be performed because the log export failed. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1F0018	DMED1F0018: The process failed due to an invalid parameter. Please confirm the specified value.	Please confirm the specified value.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1F0019	DMED1F0019: The process cannot be performed because the internal log is using. Please confirm the internal log status and try again.	Please confirm the internal log status and try again.	–
1F001A	DMED1F001A: The process cannot be performed because the same IP address is specified to Syslog Server 1 and Syslog Server 2. Please confirm the IP address and try again.	Please confirm the IP address and try again.	–
1F001B	DMED1F001B: The process cannot be performed because the IPv6 address is specified to Syslog Server. Please confirm the version of the navigator.	Please confirm the version of the navigator.	–
1F0020	DMED1F0020: The user ID is too short. Please confirm the user ID.	Please confirm the user ID.	–
1F0021	DMED1F0021: The invalid character is specified in user ID. Please confirm the user ID.	Please confirm the user ID.	–
1F0022	DMED1F0022: The current login session is expired, Please login again.	Please login again.	–
1F0023	DMED1F0023: You have no permission. Please contact the Account Administrator and confirm your permission.	Please contact the Account Administrator and confirm your permission.	–
1F0024	DMED1F0024: The specified user ID has already been registered. Please specify another user ID.	Please specify another user ID.	–
1F0025	DMED1F0025: The specified user ID is not registered. Please confirm the user ID.	Please confirm the user ID.	–
1F0026	DMED1F0026: The role is not assigned. Please assign one or more roles.	Please assign one or more roles.	–
1F0027	DMED1F0027: The process cannot be performed for logged in user.	The account cannot be changed.	–
1F0028	DMED1F0028: The process cannot be performed for Built-in account.	The built-in account cannot be changed.	–
1F0029	DMED1F0029: You have no permission to modify. Please contact the Account Administrator and confirm your permission.	Please contact the Account Administrator and confirm your permission.	–
1F002A	DMED1F002A: The logged in user reached the maximum. Please wait a moment and then try again.	Please wait a moment and then try again.	–
1F002B	DMED1F002B: The specified password does not match. Please specify password again.	Please specify password again.	–
1F002C	DMED1F002C: You cannot login because account status is disabled. Please contact Account Administrator, and confirm the account status.	Please contact Account Administrator, and confirm the account status.	–
1F002D	DMED1F002D: The specified password does not match. Please confirm the password.	Please confirm the password.	–
1F002E	DMED1F002E: The account reached the maximum. Please delete unnecessary account and try again.	Please delete unnecessary account and try again.	–
1F002F	DMED1F002F: The specified password length is less than minimum. Please confirm the password length.	Please confirm the password length.	–
1F0030	DMED1F0030: Password Protection and Account Authentication cannot be used together.	The option which cannot be effective at the same time with the specified option is already effective. Execute it again after locking or invalidating.	–
1F0031	DMED1F0031: Account Authentication cannot be installed or be enabled, because NNC is equipped. Please change the subsystem into Fibre or iSCSI configuration, and try again.	Please change the subsystem into Fibre or iSCSI configuration, and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1F0032	DMED1F0032: The process cannot be performed because the specified session timeout value is outside the effective range. Please confirm the session timeout value.	Please confirm the session timeout value.	–
1F0033	DMED1F0033: The process cannot be performed because TrueCopy Modular Distributed is installed. Please de-install the option and try again.	Please de-install the option and try again.	–
1F0034	DMED1F0034: The specified function can not be installed because the function does not meet a requirement. Please retry after installing or enabling the TrueCopy function.	Please retry after installing or enabling the TrueCopy function.	–
1F0040	DMED1F0040: The process cannot be performed because the term of the temporary key or emergency key is expired.	Check the pair status.	–
1F0041	DMED1F0041: The process cannot be performed because the ShadowImage pair is contained.	Check the pair status.	–
1F0042	DMED1F0042: The process cannot be performed because the Remote Replication pair is contained.	Check the pair status.	–
1F0043	DMED1F0043: The process cannot be performed because the Remote Replication pair is contained.	Check the pair status.	–
1F0044	DMED1F0044: The process cannot be performed because the SnapShot pair is contained.	Check the pair status.	–
1F0045	DMED1F0045: The process cannot be performed because the Volume Migration pair is contained.	Check the pair status.	–
1F0048	DMED1F0048: The process cannot be performed because formatting is now occurring. Please try again after it is completed.	Please try again after it is completed.	–
1F0049	DMED1F0049: The process cannot be performed because parity correction is not completed. Please try again after it is completed.	Please try again after it is completed.	–
1F004A	DMED1F004A: The process cannot be performed because the data pool is contained. Please delete the data pool and try again.	Please delete the data pool and try again.	–
1F004B	DMED1F004B: The process cannot be performed because the DM-LU is contained. Please cancel the DM-LU and try again.	Release the DM-LU and execute it again.	–
1F004C	DMED1F004C: The process cannot be performed because the command device is contained. Please cancel the command device and try again.	Please cancel the command device and try again.	–
1F004D	DMED1F004D: The process cannot be performed because the system LU is contained. Please cancel the system LU and try again.	Please cancel the system LU and try again.	–
1F004E	DMED1F004E: The process cannot be performed because the LU change is in progress. Please try again after it is completed.	Please try again after it is completed.	–
1F0051	DMED1F0051: The process cannot be performed because the system drives is contained.	Check the specified RAID Group.	–
1F0052	DMED1F0052: The process cannot be performed because the write uncompleted LU is contained. Please recover and then try again.	Please recover and then try again.	Troubleshooting "6.1.14 A Failure Occurred during Operation : Case 4 (Incomplete Writing)" (TRBL 06-0760)
1F0053	DMED1F0053: The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.	Please spin up the RAID groups and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1F0054	DMED1F0054: The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.	Please spin up the RAID groups and try again.	–
1F0055	DMED1F0055: The process cannot be performed because the RAID groups in state of Power Saving are existing. Please spin up the RAID groups and try again.	Please spin up the RAID groups and try again.	–
1F0056	DMED1F0056: The process cannot be performed because the RAID groups in state of Power Saving are existing. Please wait for a while and try again.	Please wait for a while and try again.	–
1F0057	DMED1F0057: The specified RAID group is not defined. Please specify a defined RAID group.	Please specify a defined RAID group.	–
1F0058	DMED1F0058: The process cannot be performed because the drive recovery is in progress. Please try again after it is completed.	Please try again after it is completed.	–
1F0059	DMED1F0059: The process cannot be performed because the health checking is in progress. Please try again after it is completed.	Please try again after it is completed.	–
1F005A	DMED1F005A: The process cannot be performed because the user LU is contained. Please cancel the user LU and try again.	Please cancel the user LU and try again.	–
1F005B	DMED1F005B: The process cannot be performed because the SES drives is contained.	Check the specified RAID Group.	–
1F005C	DMED1F005C: The process cannot be performed because state of Power Saving is in progress. Please retry after progress is completed.	Please retry after progress is completed.	–
1F005D	DMED1F005D: The process cannot be performed because the specified RAID group consists of SSD. Please confirm the RAID group and then try again.	Please confirm the RAID group and then try again.	–
1F005E	DMED1F005E: The process cannot be performed because the RAID groups which used system drives are in state of Power Saving. Please spin up the RAID groups and try again.	Please spin up the RAID groups and try again.	–
1F0080	DMED1F0080: The process cannot be performed because the external authentication server 1 is not defined. Please confirm the external authentication server 1 and try again.	Please confirm the external authentication server 1 and try again.	–
1F0082	DMED1F0082: The process cannot be performed because the external authentication server 1 is not defined and the user whose user authentication is RADIUS exists. Please change the user authentication to Internal and try again.	Please change the user authentication to Internal and try again.	–
1F0083	DMED1F0083: The specified IP address is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
1F0084	DMED1F0084: The authentication classification cannot be RADIUS because the user authentication server 1 is not defined. Please setting the external authentication server 1 as RADIUS and try again.	Please setting the external authentication server 1 as RADIUS and try again.	–
1F0085	DMED1F0085: The process cannot be performed because the authentication test with the external authentication server 1 failed. Please confirm the external authentication server 1 setting and the LAN environment, and try again.	Please confirm the external authentication server 1 setting and the LAN environment, and try again.	–
1F0086	DMED1F0086: The process cannot be performed because the character length of password is outside the effective range. Please confirm password and try again.	Please confirm password and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
1F0087	DMED1F0087: The process cannot be performed because the authentication test with the external authentication server 1 failed. Please confirm the user ID and password, and try again.	Please confirm the user ID and password, and try again.	–
1F0088	DMED1F0088: The process cannot be performed because the authentication test with the external authentication server 2 failed. Please confirm the external authentication server 2 setting and the LAN environment, and try again.	Please confirm the external authentication server 2 setting and the LAN environment, and try again.	–
1F0089	DMED1F0089: The password cannot be changed because the user authentication is RADIUS. Please change the password of RADIUS server.	Please change the password of RADIUS server.	–
1F008A	DMED1F008A: Cannot login because the user authentication with an external authentication server was time-out. Please confirm the external authentication server setting and the LAN environment, and try again.	Please confirm the external authentication server setting and the LAN environment, and try again.	–
1F008B	DMED1F008B: Cannot login because the user authentication with an external authentication server was time-out. Or the process cannot be performed because the authentication test failed. Please confirm the external authentication server setting and the LAN environment, and try again.	Please confirm the external authentication server setting and the LAN environment, and try again.	–
1F008C	DMED1F008C: Cannot login because the user authentication with an external authentication server was failed. Please confirm the user ID and password, and try again.	Please confirm the user ID and password, and try again.	–
1F008D	DMED1F008D: The process cannot be performed because the authentication test with the external authentication server 2 failed. Please confirm the user ID and password, and try again.	Please confirm the user ID and password, and try again.	–
1F008E	DMED1F008E: The process cannot be performed because the character length of user ID is outside the effective range. Please confirm user ID and try again.	Please confirm user ID and try again.	–
1F008F	DMED1F008F: The process cannot be performed because the password is not set. Please specify the password, and try again.	Please specify the password, and try again.	–
1F00A0	DMED1F00A0: The process cannot be performed because the user is not Built-in account. Please login by Built-in account and try again.	Please login by Built-in account and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
200001	DMED200001: The process cannot be performed because cache memory size 1GB or less. Please increase the cache memory and try again.	Please increase the cache memory and try again.	–
200002	DMED200002: This function is unsupported in the single-controller system	Review the system configuration.	–
200003	DMED200003: SnapShot cannot be installed because Cache Partition Manager is enabled. Please change Cache Partition Manager to de-installed or disabled and try again.	Execute it again after locking or invalidating the key of the Cache partition.	Addition/Removal/ Relocation "1.4.4 Adding a Cache Unit" (ADD 01-0390)
200004	DMED200004: Cache Partition Manager cannot be installed because the subsystem is not restarted after SnapShot is installed. Please restart the subsystem, and then try again.	Retry after executing a reboot.	–
200005	DMED200005: The option cannot be installed or enabled because cache memory size is 512MB or less. Please increase the cache memory and then try again.	Make the Cache capacity more than 512 M bytes.	Addition/Removal/ Relocation "1.4.4 Adding a Cache Unit" (ADD 01-0390)
200006	DMED200006: The option cannot be installed or enabled because cache memory size is 2GB or less. Please increase the cache memory and then try again.	Please increase the cache memory and then try again.	–
200011	DMED200011: The process cannot be performed because the specified logical unit is not the reserve LU. Please specify the reserve LU and try again.	Specify the reserved LU.	–
200012	DMED200012: The process cannot be performed because the specified logical unit is the reserve LU. Please delete the reserve LU or specify another logical unit and try again.	Specify the normal LU.	–
200013	DMED200013: The process cannot be performed because the capacity is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same capacity and try again.	Specify the P-VOL and the S-VOL of the same size.	–
200014	DMED200014: The process cannot be performed because the owner controller is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same owner controller and try again.	Specify the P-VOL and the S-VOL of the same owner DIR.	–
200015	DMED200015: The process cannot be performed the specified P-VOL and S-VOL have same logical unit number. Please specify the different logical unit number.	Specify different LUs for the P-VOL and the S-VOL.	–
200016	DMED200016: The process cannot be performed because the Volume Migration pair reached the maximum. Please cancel or split the unnecessary Volume Migration pair and try again.	Execute it again after releasing the unnecessary Volume Migration or the SI pair.	–
200017	DMED200017: The process cannot be performed because the specified P-VOL and S-VOL belong to the same RAID group. Please specify the logical units of different RAID group.	Specify the P-VOL and the S-VOL which belong to different RAID Groups.	–
200018	DMED200018: The specified pair cannot be canceled because the pair status is not waiting or copying.	Execute the Volume Migration suspension instruction while the pair status is waiting or migrating.	–
200019	DMED200019: The specified pair cannot be split because the pair status is not completed or error.	Execute the Volume Migration pair release instruction while the pair status is completed or failed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
20001A	DMED20001A: The process cannot be performed because the specified P-VOL and S-VOL are not in pairs. Please specify the P-VOL and S-VOL in pairs and try again.	Specify the P-VOL and the S-VOL which create the same pair.	–
20001B	DMED20001B: The process cannot be performed because the reserve LU reached the maximum. Please delete the unnecessary reserve LU and try again.	Execute it again after deleting the reserved LU.	–
20001C	DMED20001C: The process cannot be performed because the specified logical unit is the S-VOL of the Volume Migration pair. Please specify another logical unit and try again.	Specify the LU other than the S-VOL.	–
20001D	DMED20001D: The process cannot be performed because the specified logical unit is not the reserve LU. Please specify the reserve LU and try again.	Specify the reserved LU.	–
20001E	DMED20001E: The process cannot be performed because the P-VOL or S-VOL of the Volume Migration pair is contained. Please split the pair and try again.	Specify the LU which is not creating the Volume Migration pair (P-VOL/S-VOL).	–
20001F	DMED20001F: The process cannot be performed because the reserve LU is contained. Please delete the reserve LU and try again.	Specify the LU other than the reserved LU.	–
200020	DMED200020: The process cannot be performed because the P-VOL or S-VOL of the Volume Migration pair or the reserve LU is contained. Please split the pair or delete the reserve LU and try again.	Release the Volume Migration pair or the reserved LU.	–
200021	DMED200021: The process cannot be performed because the owner ID is different. Please cancel the pair using the application that created the pair.	Check the owner ID and execute it again from the owner ID concerned.	–
200022	DMED200022: The process cannot be performed because the owner ID is different. Please split the pair using the application that created the pair.	Check Hitachi Storage Navigator Modular 2 or the owner ID and execute it again from the owner ID concerned.	–
200023	DMED200023: The process cannot be performed because the specified owner ID is not supported.	Execute it again from Hitachi Storage Navigator Modular 2 or HiCommand.	–
200024	DMED200024: The process cannot be performed because the reserve LU exists. Please delete the reserve LU and try again.	Execute it again after deleting the LU in the reserved status.	–
200025	DMED200025: The process cannot be performed because the Volume Migration pair exists. Please cancel or split the pair and try again.	Execute it again after releasing the LU in the pair status.	–
200026	DMED200026: The process cannot be performed because the specified logical unit is reserved for cache partition modification. Please restart the subsystem and then try again.	Execute it again after determining (restarting) the Cache partition change.	–
200027	DMED200027: The process cannot be performed because a management area is shortage. Please delete the unnecessary pair(s) and try again.	When the VOL using the differential bit map is the SnapShot pair, delete the V-VOL after performing pairsplit –S. When the VOL using the differential bit map is ShadowImage in-system replication or Simple DR, perform the pair release from RAID Manager using pairsplit –S or from Hitachi Storage Navigator Modular 2.	–
200028	DMED200028: The process cannot be performed because the specified logical unit is not the Volume Migration pair. Please specify another logical unit and try again.	Specify the Volume Migration pair and execute it again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
200029	DMED200029: The process cannot be performed because the specified logical unit is Volume Migration pair and is copying. Please retry after copy is completed.	Execute it again after completing the copy of Volume Migration.	–
20002A	DMED20002A: The copy pace of specified pair cannot be changed because the pair status is not waiting or copying.	Execute it while the pair status of the Volume Migration pair is waiting or migrating.	–
20002B	DMED20002B: The process cannot be performed because the specified owner ID is not supported.	The copy priority change instruction of the Volume Migration pair is only supported by Hitachi Storage Navigator Modular 2. Execute the change of the copy priority from Hitachi Storage Navigator Modular 2.	–
20002C	DMED20002C: The process cannot be performed because the specified logical unit is not the P-VOL or S-VOL of the Volume Migration pair. Please specify the P-VOL or S-VOL of the Volume Migration pair and try again.	Specify the P-VOL or S-VOL of the Volume Migration pair and execute it again.	–
20002D	DMED20002D: The specified P-VOL and S-VOL belong to same DP pool. Please specify a different DP pool and then try again.	Please specify a different DP pool and then try again.	–
20002E	DMED20002E: The capacity of DP pool to which the specified S-VOL belongs is insufficient. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
200030	DMED200030: The number of iSCSI connecting hosts exceeds the maximum value that can be unlocked or enabled fee-basis option. Please delete unnecessary hosts and try again.	Please delete unnecessary hosts and try again.	–
210001	DMED210001: The process cannot be performed because the mapping information is overlapped within the same host group. Please confirm the mapping information.	Check the specified LU.	–
210010	DMED210010: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Execute it again after waiting for a while.	–
210011	DMED210011: The process cannot be performed because E-mail Error Report is enabled. Please set E-mail Error Report to disable and try again.	Please set E-mail Error Report to disable and try again.	–
220001	DMED220001: The process cannot be performed because the specified battery count is outside the effective range. Please confirm the battery count.	Specify the valid number or less of batteries that can be specified or the valid number or more of standard batteries.	–
220002	DMED220002: The valid battery count cannot be increased. Please specify the count equal to or less than the current valid battery count.	Specify the number or less of batteries currently valid	–
220003	DMED220003: The process cannot be performed in the single-controller system. Please confirm the system configuration.	Please confirm the system configuration.	–
220004	DMED220004: The new unit cannot be added because the number of units reached the maximum. Please confirm the system configuration.	Please confirm the system configuration.	–
220005	DMED220005: The process cannot be performed because the controller or ENC is detached. Please recover the status and then try again.	Please recover the status and then try again.	–
220006	DMED220006: The process cannot be performed because the ENC firmware is being replaced. Please retry after the replacement completes.	Please retry after the replacement completes.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
220007	DMED220007: The process cannot be performed because the subsystem is under diagnosis process. Please retry after a while.	Please retry after a while.	–
220008	DMED220008: The process cannot be performed because the unit is being added. Please retry after the addition of unit completes.	Please retry after the addition of unit completes.	–
220009	DMED220009: The specified battery count cannot be set. Please specify a right battery count.	Please specify a right battery count.	–
230001	DMED230001: The process cannot be performed because the migration guard is set up. Please clear the migration guard and try again.	Please clear the migration guard and try again.	–
230002	DMED230002: The process cannot be performed because the Migration Status is Checking. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230003	DMED230003: The process cannot be performed because the Migration Status is Preparing to Create Copy. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230004	DMED230004: The process cannot be performed because the Migration Status is Creating Copy. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230005	DMED230005: The process cannot be performed because the Migration Status is Auto Migration Failed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230006	DMED230006: The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230007	DMED230007: The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230008	DMED230008: The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230009	DMED230009: The process cannot be performed because the subsystem is executing Auto Migration. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230010	DMED230010: The process cannot be performed because the Migration Status is Copy Created. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230011	DMED230011: The process cannot be performed because the Migration Status is Switching Array. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230012	DMED230012: The process cannot be performed because the Migration Status is Auto Migration Completed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230013	DMED230013: The process cannot be performed because the Migration Status is Switching Array Failed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230014	DMED230014: The process cannot be performed because the Migration Status is In Progress. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
230015	DMED230015: The process cannot be performed because the Migration Status is Completed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230016	DMED230016: The process cannot be performed because the Migration Status is Failed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230017	DMED230017: The process cannot be performed because the Migration Status is Not Started. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230018	DMED230018: The process cannot be performed because the Migration Status is Creating Copy Failed to Start. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230019	DMED230019: The process cannot be performed because the ENC firmware is being replaced. Please retry after replacement completes.	Please retry after replacement completes.	–
230020	DMED230020: The process cannot be performed because the Migration Status is Preparing. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
230021	DMED230021: The process cannot be performed because ShadowImage pair of Split Pending exists. Please try again when the pair status is not Split Pending.	Please try again when the pair status is not Split Pending.	–
231000	DMED231000: The process cannot be performed because the subsystem is executing the Auto Migration. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–
231001	DMED231001: The process cannot be performed because the subsystem is executing the Auto Migration or the addition of unit. Please confirm the Migration Status while executing Auto Migration and try again.	Please confirm the Migration Status while executing Auto Migration and try again.	–
231002	Hitachi Storage Navigator Modular 2 is less than Ver.6.20.		
	DMED231002: The specified equipment ID is incorrect. Please specify a right equipment ID.	Please specify a right equipment ID.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.20 or more.		
	DMED231002: The specified array ID is incorrect. Please specify a right array ID.	Please specify a right array ID.	–
231003	DMED231003: The process cannot be performed because formatting is now occurring. Please retry after formatting completes.	Please retry after formatting completes.	–
231004	DMED231004: The process cannot be performed because the specified interface board type is not equipped. Please confirm the interface board type.	Please confirm the interface board type.	–
231005	DMED231005: The process cannot be performed because the PIN exceeded state. Please restore PIN data and try again.	Please restore PIN data and try again.	–
231006	DMED231006: The process cannot be performed because the write uncompleted LU exists. Please recover and then try again.	Please recover and then try again.	–
231007	DMED231007: The process cannot be performed because the DM-LU is not defined. Please define DM-LU and try again.	Please define DM-LU and try again.	–
231008	DMED231008: The process cannot be performed because the Auto Migration is executing or is failed. Please confirm the Migration Status and try again.	Please confirm the Migration Status and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
240001	DMED240001: The certificate and the secret key cannot be checked. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
240002	DMED240002: The process cannot be performed because the certificate is invalid. Please confirm the certificate and try again.	Please confirm the certificate and try again.	–
240003	DMED240003: The process cannot be performed because the secret key is invalid. Please confirm the certificate and try again.	Please confirm the certificate and try again.	–
241001	Hitachi Storage Navigator Modular 2 is less than Ver.6.00.		
	DMED241001: The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed.	Please retry after expansion is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.00 or more.		
	DMED241001: The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed. And, the specified operation may not be performed even if the RAID group expansion is completed. When the RAID group expansion is completed, please retry after waiting 2 minutes or more.	Please retry after expansion is completed.	–
241002	DMED241002: The 'cancel' operation cannot be performed because the RAID group does not execute the expansion. Please confirm the RAID group and then try again.	Please confirm the RAID group and then try again.	–
241003	DMED241003: The 'cancel' operation cannot be performed because the RAID group is executing expansion or has been executed the expansion and waiting. Please confirm the RAID group status and try again.	Please confirm the RAID group status and try again.	–
241004	DMED241004: The 'forcibly cancel' operation cannot be performed because the RAID group does not execute the expansion and waiting. Please specify a 'cancel' operation.	Please specify a 'cancel' operation.	–
241005	DMED241005: The process cannot be performed because RAID group is RAID0. Please confirm RAID level and then try again.	Please confirm RAID level and then try again.	–
241006	DMED241006: The process cannot be performed because the number of parity groups is not 1. Please confirm the RAID group and try again.	Please confirm the RAID group and try again.	–
241007	DMED241007: The process cannot be performed because the specified drives contain an un-mounted drive or a blocked drive. Please confirm the drive status and try again.	Please confirm the drive status and try again.	–
241008	DMED241008: The specified drive is already defined as a spare drive, or is already being used in the RAID group. Please confirm the drive status and try again.	Please confirm the drive status and try again.	–
241009	DMED241009: The process cannot be performed because the number of drive is incorrect. Please specify it by an even number, when RAID level is RAID1 or RAID1+0.	Please specify it by an even number, when RAID level is RAID1 or RAID1+0.	–
24100A	DMED24100A: The process cannot be performed because the number of drive is incorrect. Please specify the number of drives within the range of the combination at the RAID level.	Please specify the number of drives within the range of the combination at the RAID level.	–
24100B	DMED24100B: The process cannot be performed because the drive type of the RAID group is different. Please confirm the drive type and try again.	Please confirm the drive type and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
24100C	DMED24100C: The process cannot be performed because the capacity of specified drive is less than the minimum capacity of the RAID group drives. Please confirm the drive capacity and try again.	Please confirm the drive capacity and try again.	–
24100D	DMED24100D: The process cannot be performed because ShadowImage pair or Remote Replication pair is not Simplex or Split, or SnapShot pair is not Simplex or Paired. Please retry after copy is completed.	Please retry after copy is completed.	–
24100E	DMED24100E: The process cannot be performed because SnapShot pair is not Paired or Remote Replication pair is not Split. Please retry after copy is completed.	Please retry after copy is completed.	–
24100F	DMED24100F: The process cannot be performed because some logical unit are under quick formatting. Please retry after quick formatting is completed.	Please retry after quick formatting is completed.	–
241010	DMED241010: The process cannot be performed because some logical unit is under parity correction. Please retry after parity correction is completed.	Please retry after parity correction is completed.	–
241011	DMED241011: The process cannot be performed because the write uncompleted LU is contained. Please recover and then try again.	Please recover and then try again.	–
241012	DMED241012: The process cannot be performed because the Volume Migration pair is contained. Please split the pair and try again.	Please split the pair and try again.	–
241013	DMED241013: The process cannot be performed because the reserve LU of the Volume Migration is contained. Please delete the reserve LU and try again.	Please delete the reserve LU and try again.	–
241014	DMED241014: The process cannot be performed because the Cache Residency LU or a reserved one exists. Please delete the Cache Residency LU and then try again.	Please delete the Cache Residency LU and then try again.	–
241016	DMED241016: The process cannot be performed because the LU change is in progress. Please wait for a while and then try again.	Please wait for a while and then try again.	–
241017	DMED241017: The process cannot be performed because the size of LU is over 120TB or the unified LU exists. Please shrink the LU capacity and try again.	Please shrink the LU capacity and try again.	–
241019	DMED241019: The process cannot be performed because the subsystem is not restarted, when Cache Partition Manager and SnapShot or Remote Replication is enabled. Or the process cannot be performed because cache partition modification is reserved. Please restart the subsystem and try again.	Please restart the subsystem and try again.	–
24101A	DMED24101A: The process cannot be performed because ShadowImage pair of Split Pending exists. Please try again after status is changed to Split.	Please try again after status is changed to Split.	–
24101B	DMED24101B: The process cannot be performed because the logical unit in regressed state is contained. Please change the state to normal and try again.	Please change the state to normal and try again.	–
241050	DMED241050: The process cannot be performed because the RAID group expansion is now occurring. Please retry after expansion is completed.	Please retry after expansion is completed.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
241051	DMED241051: The process cannot be performed because the LU changing occurred by the RAID group expansion. Please retry after expansion is completed.	Please retry after expansion is completed.	–
250001	DMED250001: The specified IP address is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
250002	DMED250002: The specified default gateway address is incorrect. Please specify a right default gateway address.	Please specify a right default gateway address.	–
250003	DMED250003: The process cannot be performed because the segment is different between the management LAN and default gateway. Please specify a correct IP address.	Please specify a correct IP address.	–
250004	DMED250004: The process cannot be performed because the specified management LAN is same address as the linklocal management LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
250005	DMED250005: The process cannot be performed because the specified management LAN is same address as the linklocal maintenance LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
250006	DMED250006: The process cannot be performed because the specified management LAN is same address as the maintenance LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
250007	DMED250007: The process cannot be performed because the specified maintenance LAN is same address as the management LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
250008	DMED250008: The process cannot be performed because the specified maintenance LAN is same address as the linklocal management LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
250009	DMED250009: The process cannot be performed because the specified maintenance LAN is same address as the linklocal maintenance LAN. Please specify the different address and try again.	Please specify the different address and try again.	–
25000A	DMED25000A: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
25000B	DMED25000B: The process cannot be performed because subsystem is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
25000C	DMED25000C: The specified IP address is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
25000D	DMED25000D: The specified IP address is incorrect. Please specify a correct IP address.	Please specify a correct IP address.	–
25000E	DMED25000E: The protocol version (IPv4/IPv6) is different between IP address of subsystem and the specified IP address of mail server. Please confirm the protocol version of the subsystem and try again.	Please confirm the protocol version of the subsystem and try again.	–
25000F	DMED25000F: The protocol version (IPv4/IPv6) is different between IP address of subsystem and the set IP address of mail server. Please confirm the protocol version of the subsystem and try again.	Please confirm the protocol version of the subsystem and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
260001	DMED260001: The specified drive is already defined as a spare drive, or is already being used in the RAID group or DP pool. Please confirm the drive status and try again.	Please confirm the drive status and try again.	–
260002	DMED260002: The process cannot be performed because the DP pool exists. Please delete the DP pool and try again.	Please delete the DP pool and try again.	–
260003	DMED260003: The process cannot be performed because the specified logical unit is a logical unit in the DP pool. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
260004	DMED260004: The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
260005	DMED260005: The number of defined logical unit reached the maximum. Please delete unnecessary logical unit and try again.	Please delete unnecessary logical unit and try again.	–
260006	DMED260006: The process cannot be performed because the specified RAID group is a RAID group in the DP pool. Please confirm the RAID group and try again.	Please confirm the RAID group and try again.	–
260007	DMED260007: The process cannot be performed because the logical unit which belongs to the DP pool is not normal state. Please recover the status and then try again.	Please recover the status and then try again.	–
260008	DMED260008: The specified DP pool number has already been defined. Please specify a new number.	Please specify a new number.	–
260009	DMED260009: The process cannot be performed because the specified RAID level is not supported. Please specify the RAID level currently supported and try again.	Please specify the RAID level currently supported and try again.	–
26000A	DMED26000A: The specified RAID group is already defined or used by DP pool. Please specify a new RAID group.	Please specify a new RAID group.	–
26000B	DMED26000B: The process cannot be performed because the specified DP pool is neither in normal nor in regressed state. Please recover the status and then try again.	Please recover the status and then try again.	–
26000C	Hitachi Storage Navigator Modular 2 is less than Ver.8.00.		
	DMED26000C: The process cannot be performed because the specified drive type is unknown. Please replace the drive with SAS or SATA drive and try again.	Please replace the drive with SAS or SATA drive and try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.8.00 or more.		
	DMED26000C: The process cannot be performed because the non-supported drive is mounted. Please replace the drive and then try again.	Please replace the drive and then try again.	–
26000D	DMED26000D: The process cannot be performed because the capacity of specified drive is not supported. Please replace the drive currently supported and try again.	Please replace the drive currently supported and try again.	–
26000E	DMED26000E: The specified DP pool cannot be deleted. Please specify another DP pool.	Please specify another DP pool.	–
26000F	DMED26000F: The number of defined RAID group reached the maximum. Please delete unnecessary RAID group and try again.	Please delete unnecessary RAID group and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
260010	DMED260010: The process cannot be performed because the subsystem is not restarted after Dynamic Provisioning is installed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
260011	DMED260011: The process cannot be performed because combination of the RAID level and the number of drive does not match. Please confirm combination of the RAID level or the number of drive and try again.	Please confirm combination of the RAID level or the number of drive and try again.	–
260012	DMED260012: The specified DP pool is not defined. Please specify a defined DP pool and then try again.	Please specify a defined DP pool and then try again.	–
260013	DMED260013: The process cannot be performed because the specified DP pool is neither in normal state. Please recover the status and then try again.	Please recover the status and then try again.	–
260014	DMED260014: The number of drives reach the maximum. Please confirm the number of drives.	Please confirm the number of drives.	–
260015	DMED260015: The process cannot be performed because the logical unit exists in the DP pool. Please delete the logical unit in the DP pool and then try again.	Please delete the logical unit in the DP pool and then try again.	–
260016	DMED260016: The process cannot be performed because the drive recovery is in progress. Please retry after drive recovery completes.	Please retry after drive recovery completes.	–
260017	DMED260017: The process cannot be performed because the drive firmware is being replaced. Please retry after replacement completes.	Please retry after replacement completes.	–
260018	DMED260018: The early alert of DP pool consumed capacity alert is equal to or more than the depletion alert. Please confirm the values and try again.	Please confirm the values and try again.	–
260019	DMED260019: The warning of over provisioning threshold is equal to or more than the limit. Please confirm the values and try again.	Please confirm the values and try again.	–
26001A	DMED26001A: The process cannot be performed because the combination of drive type and drive capacity does not match. Please confirm the drive type or the drive capacity, and try again.	Please confirm the drive type or the drive capacity, and try again.	–
26001B	DMED26001B: There is no drive which can be used. Please confirm the number of drives and try again.	Please confirm the number of drives and try again.	–
26001C	DMED26001C: The process cannot be performed because specified logical unit is not a logical unit in the DP pool. Please specify an logical unit in the DP pool and then try again.	Please specify an logical unit in the DP pool and then try again.	–
26001D	DMED26001D: The process cannot be performed because cache memory size is 2GB or less. Please increase a larger cache memory than 4GB and then try again.	Please increase a larger cache memory than 4GB and then try again.	–
26001E	DMED26001E: The process cannot be performed because cache memory size is 2GB or less. Please increase a larger cache memory than 4GB and then try again.	Please increase a larger cache memory than 4GB and then try again.	–
26001F	DMED26001F: The process cannot be performed because the status of DP pool consumed capacity is depletion alert over or capacity depleted. Please confirm the DP pool consumed capacity and then try again.	Please confirm the DP pool consumed capacity and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
260020	DMED260020: The process cannot be performed because the DP pool consumed capacity is not normal state. Please confirm the DP pool consumed capacity and then try again.	Please confirm the DP pool consumed capacity and then try again.	–
260021	DMED260021: The process cannot be performed because the combination of RAID level and number of drives does not match. Please confirm the number of drives and then try again.	Please confirm the number of drives and then try again.	–
260022	DMED260022: The process cannot be performed because different drives are specified. Please confirm the drive type and then try again.	Please confirm the drive type and then try again.	–
260023	DMED260023: The process cannot be performed because there are some logical units that are not normal or skip state of the parity correction. Please retry after changing to normal state.	Please retry after changing to normal state.	–
260024	DMED260024: The process cannot be performed because the drive type of the DP pool is different. Please confirm the drive type and then try again.	Please confirm the drive type and then try again.	–
260025	DMED260025: The process cannot be performed because the combination of stripe size and segment size does not match. Please confirm the stripe size or the cache partition and then try again.	Please confirm the stripe size or the cache partition and then try again.	–
260026	DMED260026: The process cannot be performed because the combination of the number of drives and the combination does not match. Please confirm the number of drives and the combination and then try again.",	Please confirm the number of drives and the combination and then try again.",	–
260027	DMED260027: The process cannot be performed because the capacity of DP pool will exceed the maximum. Please delete unnecessary DP pools and then try again.	Please delete unnecessary DP pools and then try again.	–
260028	DMED260028: The process cannot be performed because the access level is set up. Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	Please change the attribute to Read/Write, and set S-VOL mode to enable. When the mode is set up, please reset the mode using RAID Manager. And try again.	–
260029	DMED260029: The process cannot be performed because the DP optimization state of the specified logical unit in DP pool or the logical units in DP pool that has specified logical unit is neither in Normal state nor in Failed state. Please wait for completion of DP optimization or cancel DP optimization and then try again.	Please wait for completion of DP optimization or cancel DP optimization and then try again.	–
26002A	DMED26002A: The process cannot be performed because the DP optimization state of logical unit in DP pool is not Normal. Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.	Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.	–
26002B	DMED26002B: The process cannot be performed because the capacity of DP pool for performing DP optimization is insufficient. Please add capacity of DP pool for performing DP optimization and then try again.	Please add capacity of DP pool for performing DP optimization and then try again.	–
26002C	DMED26002C: The process cannot be performed because specified logical unit in DP pool or the logical units in DP pool that has specified logical unit contains the write uncompleted logical unit. Please recover and then try again.	Please recover and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
26002D	DMED26002D: It is not necessary to cancel because DP optimization state of the logical unit in specified DP pool or the logical unit in DP pool containing specified logical unit is already optimizing or canceling.	–	–
26002E	DMED26002E: The process cannot be performed because DP optimization state of the logical unit in DP pool is not normal. Please confirm DP optimization state of the logical unit in DP pool and then try again.	Please confirm DP optimization state of the logical unit in DP pool and then try again.	–
26002F	DMED26002F: The process cannot be performed because specified logical unit in DP pool contains the write uncompleted logical unit. Please recover and then try again.	Please recover and then try again.	–
260030	DMED260030: The process cannot be performed because status of the logical unit in specified DP pool or the logical unit in DP pool containing specified logical unit is neither in Normal state nor in Regression state. Please recover the logical unit and then try again.	Please recover the logical unit and then try again.	–
260031	DMED260031: The process cannot be performed because ShadowImage pair of Simplex state exists in specified DP pool. Please release the pair and then try again.	Please release the pair and then try again.	–
260032	DMED260032: The process cannot be performed because specified logical unit in DP pool or the logical units in DP pool that has specified logical unit is in the PIN exceeded state. Please recover and then try again.	Please recover and then try again.	–
260033	DMED260033: The process cannot be performed because state of the DP pool which contains the specified logical unit is Detached. Please recover and then try again.	Please recover and then try again.	–
260034	DMED260034: The process cannot be performed because status the logical unit in the specified DP pool is in Normal state nor in Regression state. Please recover the logical unit and then try again.	Please recover the logical unit and then try again.	–
260035	DMED260035: The process cannot be performed because specified logical unit in DP pool is in the PIN exceeded state. Please recover and then try again.	Please recover and then try again.	–
260036	DMED260036: The process cannot be performed because the updating of DP management information is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
260037	DMED260037: The capacity of DP pool to which the specified P-VOL belongs is insufficient. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
260038	DMED260038: The process cannot be performed because the subsystem is not restarted after DP capacity mode is changed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
260039	DMED260039: The process cannot be performed because the capacity of DP pool will exceed the maximum. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
26003A	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMED26003A: The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed, or Advanced Security Mode is changed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMED26003A: The process cannot be performed because the subsystem is not restarted after Remote Replication, SnapShot or Dynamic Provisioning is installed or is de-installed, or DP capacity mode is changed. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
26003B	DMED26003B: The process cannot be performed because Remote Replication pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.	Please cancel the pair and then try again.	–
26003C	DMED26003C: The process cannot be performed because Remote Replication pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.	Please cancel the pair and then try again.	–
26003D	DMED26003D: The process cannot be performed because SnapShot pair of Simplex state exists in specified DP pool. Please cancel the pair and then try again.	Please cancel the pair and then try again.	–
26003E	DMED26003E: The process cannot be performed because the data pool exists in specified DP pool. Please delete the data pool and try again.	Please delete the data pool and try again.	–
270000	DMED270000: A memory reconfiguration of fee-basis option is required to confirm a setup.	A memory reconfiguration of fee-basis option is required to confirm a setup.	–
270001	DMED270001: The process cannot be performed because the memory reconfiguration is in progress. Please try again after the memory reconfiguration is completed.	Please try again after the memory reconfiguration is completed.	–
270002	DMED270002: The process cannot be performed because the memory reconfiguration is failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.	Please reconfigure memory after removing the cause of the error, or restart the subsystem.	–
270003	DMED270003: The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after the option using data pool is installed or enabled. Please try again after restarting the subsystem or executing the memory reconfiguration.	Please try again after restarting the subsystem or executing the memory reconfiguration.	–
270004	DMED270004: The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after the option using data pool or Dynamic Provisioning is installed, de-installed, enabled, or disabled. Please try again after restarting the subsystem or executing the memory reconfiguration.	Please try again after restarting the subsystem or executing the memory reconfiguration.	–
270005	DMED270005: The process cannot be performed because the subsystem is not restarted or the memory reconfiguration is not executed after Dynamic Provisioning is installed or enabled. Please try again after restarting the subsystem or executing the memory reconfiguration.	Please try again after restarting the subsystem or executing the memory reconfiguration.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
270006	DMED270006: The process cannot be performed because the memory reconfiguration to use data pool is failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.	Please reconfigure memory after removing the cause of the error, or restart the subsystem.	–
270007	DMED270007: The process cannot be performed because the memory reconfiguration to use Dynamic Provisioning failed. Please reconfigure memory after removing the cause of the error, or restart the subsystem.	Please reconfigure memory after removing the cause of the error, or restart the subsystem.	–
270008	DMED270008: It is not necessary to reconfigure memory because the memory reconfiguration is completed.	It is not necessary to reconfigure memory because the memory reconfiguration is completed.	–
270009	DMED270009: The memory reconfiguration is in progress already. Please try again after memory reconfiguration is completed, when required.	Please try again after memory reconfiguration is completed, when required.	–
27000A	DMED27000A: The process cannot be performed because the status of ShadowImage pair is Synchronizing, Split Pending, or Paired Internally Synchronizing, or Volume Migration pair is copying. Please retry after copy is completed.	Please retry after copy is completed.	–
27000B	DMED27000B: The process cannot be performed because the status of SnapShot pair is Synchronizing. Please retry after copy is completed.	Please retry after copy is completed.	–
27000C	DMED27000C: The process cannot be cancel because reconfiguring memory is not started.	The process cannot be cancel because reconfiguring memory is not started.	–
27000D	DMED27000D: The reconfigure memory cannot be aborted. Please wait until the reconfigure memory is completed.	Please wait until the reconfigure memory is completed.	–
27000E	DMED27000E: The process cannot be performed because DP pool under formatting exists. Retry after formatting completes.	Retry after formatting completes.	–
27000F	DMED27000F: The reconfigure memory cannot be performed because the capacity of Cache Residency LU is large. Please release a Cache Residency LU or set a Cache Residency LU to small capacity LU and restart the subsystem.	Please release a Cache Residency LU or set a Cache Residency LU to small capacity LU and restart the subsystem.	–
270010	Hitachi Storage Navigator Modular 2 is less than Ver.11.75.		
	DMED270010: The process cannot be performed because the capacity of DP pool is insufficient. Please grow the capacity of DP pool, and try again.	Please grow the capacity of DP pool, and try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.11.75 or more.		
	DMED270010: The process cannot be performed because the capacity of DP pool is insufficient or over the depletion alert value of DP pool consumed capacity alert. Please grow the capacity of DP pool or change the depletion alert value of DP pool consumed capacity alert, and try again.	Please grow the capacity of DP pool or change the depletion alert value of DP pool consumed capacity alert, and try again.	–
270011	DMED270011: The process cannot be performed because Full Capacity Mode of the specified logical unit is enabled. Please set Full Capacity Mode to disable, and try again.	Please set Full Capacity Mode to disable, and try again.	–
270012	DMED270012: The process cannot be performed because Full Capacity Mode of the specified logical unit is in progress. Please retry after the process completes.	Please retry after the process completes.	–
270013	DMED270013: The process cannot be performed because the logical unit to which Full Capacity Mode in specified DP pool is in progress exists. Please retry after the process completes.	Please retry after the process completes.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
270014	DMED270014: The Accelerated Wide Striping Mode and the Full Capacity Mode cannot be specified to enable at the same time. Please set Accelerated Wide Striping Mode or the Full Capacity Mode to disable, and try again.	Please set Accelerated Wide Striping Mode or the Full Capacity Mode to disable, and try again.	–
270015	DMED270015: The process cannot be performed because the Full Capacity Mode is different between the specified P-VOL and S-VOL. Please specify the logical unit of the same Full Capacity Mode and try again.	Please specify the logical unit of the same Full Capacity Mode and try again.	–
270016	DMED270016: The process cannot be performed because the Full Capacity Mode of specified logical unit is different from the data pool. Please confirm the Full Capacity Mode and try again.	Please confirm the Full Capacity Mode and try again.	–
270017	DMED270017: The process cannot be performed because the capacity of specified DP pool is insufficient. Please set the Full Capacity Mode to disable, or please retry after formatting of DP pool is completed.	Please set the Full Capacity Mode to disable, or please retry after formatting of DP pool is completed.	–
270018	DMED270018: The Full Capacity Mode cannot be specified to enable because the capacity of DP pool to which the specified logical unit belongs is insufficient. Please retry after formatting of DP pool is completed.	Please retry after formatting of DP pool is completed.	–
270019	DMED: The process cannot be performed because the over provisioning threshold of the DP pool that has the specified logical unit will be equal to or more than the limit. Please add DP pool capacity and then try again.	Please add DP pool capacity and then try again.	–
280000	DMED280000: The backup information of the Master Authentication Key was created.	–	–
280009	DMED280009: The process cannot be performed because the RAID group whose drive type is SAS(SED) is defined. Please delete RAID group, and try again.	Please delete RAID group, and try again.	–
280001	DMED280001: The process cannot be performed because the refreshing of the authentication key is in progress. The refreshing is completed, then try again.	The refreshing is completed, then try again.	–
280004	DMED280004: The SAS(SED) drives are mounted. Please remove the SAS(SED) drives, and try again.	Please remove the SAS(SED) drives, and try again.	Replacement “2.2.1 Replacing Disk Drive” (REP 02-0030)
280005	DMED280005: The sum check error of the master key. Please confirm specified value, and try again.	Please confirm specified value, and try again.	–
280006	DMED280006: Failed to back up the master authentication key. Please wait for a while and then try again.	Please wait for a while and then try again.	–
280009	DMED280009: The process cannot be performed because the RAID group whose drive type is SAS(SED) is defined. Please delete RAID group, and try again.	Please delete RAID group, and try again.	–
28000A	DMED28000A: The process cannot be performed because the DP pool whose drive type is SAS(SED) is defined. Please delete DP pool, and try again.	Please delete DP pool, and try again.	–
28000B	DMED28000B: The process cannot be performed because the spare drive whose drive type is SAS(SED) is defined. Please release spare drive, and try again.	Please release spare drive, and try again.	–
28000C	DMED28000C: The specified password or restore information is invalid. Please confirm specified value, and try again.	Please confirm specified value, and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
28000D	DMED28000D: The specified restore information is invalid. Please confirm specified value, and try again.	Please confirm specified value, and try again.	–
28000E	DMED28000E: Failed to back up the master authentication key. Please wait for a while and then try again.	Please wait for a while and then try again.	–
28000F	DMED28000F: The drive under Authenticating SEDs exists. Please retry after authenticating completes.	Please retry after authenticating completes.	–
280010	DMED280010: The process cannot be performed because the RAID group contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.	Please recover and then try again.	–
280011	DMED280011: The process cannot be performed because the DP pool contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.	Please recover and then try again.	–
280012	DMED280012: The process cannot be performed because the spare drive contains an un-mounted SAS(SED) drive or a blocked SAS(SED) drive. Please recover and then try again.	Please recover and then try again.	–
280013	DMED280013: The process cannot be performed because the serial number of the specified file is different from the subsystem. Please confirm the file name, and try again.	Please confirm the file name, and try again.	–
280014	DMED280014: The process cannot be performed because the restoreation information on the specified file is older than that of the subsystem. Please confirm the file name, and try again.	Please confirm the file name, and try again.	–
280015	DMED280015: The process cannot be performed because the dummy file is specified. Please confirm the file name, and try again.	Please confirm the file name, and try again.	–
280016	DMED280016: The process cannot be performed because the authentication is not executed. Please restore the master authentication key, and try again.	Please restore the master authentication key, and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
300001	DMED300001: The serial number or equipment ID cannot be changed because the path and pair information does not exist.	Serial number or device ID changes are not required.	–
300002	DMED300002: The serial number or equipment ID cannot be changed because the path and pair information does not exist.	Serial number or device ID changes are not required.	–
300005	DMED300005: The specified serial number or equipment ID is incorrect. Please specify it in 0-9.	Please specify it in 0-9.	–
300006	DMED300006: The specified serial number is incorrect. Please specify a right serial number.	Please specify a right serial number.	–
300007	DMED300007: The specified serial number is incorrect. Please specify a right serial number.	Please specify a right serial number.	–
300008	DMED300008: 0 is specified as 6 figures of low order of the serial number. Please specify a right serial number.	Please specify a right serial number.	–
300009	DMED300009: The same serial number as a self subsystem is specified. Please specify the serial number of connected subsystem.	Please specify the serial number of connected subsystem.	–
30000A	DMED30000A: The same equipment ID as a self subsystem is specified. Please specify the equipment ID of connected subsystem.	Specify the equipment ID for the other system.	–
30000B	DMED30000B: The process cannot be performed because the fibre channel port is not equipped. Please confirm the port type and try again.	Please confirm the port type and try again.	–
30000C	DMED30000C: A value differs from current value is specified as 1 figures of high order of the serial number or equipment ID. Please specify a right serial number or equipment ID.	Please specify a right serial number or equipment ID.	–
30000D	DMED30000D: The process cannot be performed because the specified array ID is not set to Remote Replication pair, remote path or remote port CHAP information (Target information). Please confirm the array ID and try again.	Please confirm the array ID and try again.	–
30000E	DMED30000E: The array ID before and behind change is the same. Please specify a right array ID.	Please specify a right array ID.	–
3B0011	Hitachi Storage Navigator Modular 2 is less than Ver.4.3.		
	DMED3B0011: The firmware cannot be downgraded because the interface board of iSCSI is equipped. Please change the interface boards to fibre channel and try again.	Please change the interface boards to fibre channel and try again.	–
	Hitachi Storage Navigator Modular 2 is Ver.4.3 or more.		
	DMED3B0011: The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.	Please retry by using firmware in relation to this interface board.	–
3B0012	DMED3B0012: The firmware cannot be downgraded because the segment size of 64KB or more is set up. Please confirm the cache partition and try again.	Please confirm the cache partition and try again.	–
3B0013	DMED3B0013: The firmware cannot be downgraded because the stripe size other than 64KB is set up. Please confirm the stripe size of logical unit and try again.	Please confirm the stripe size of logical unit and try again.	–
3B0014	DMED3B0014: The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.	Please change Remote Replication to de-installed and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3B0015	DMED3B0015: The firmware cannot be downgraded because the subsystem is not restarted after the option using data pool is unlocked or enabled. Please restart the subsystem and then try again.	Please restart the subsystem and then try again.	–
3B0016	DMED3B0016: The firmware cannot be downgraded because the target(s) or CHAP user(s) is not initialized. Please initialize the target(s) and CHAP user(s) and try again.	Please initialize the target(s) and CHAP user(s) and try again.	–
3B0018	DMED3B0018: The firmware cannot be downgraded because the pair with MU number other than 0 exists in S-VOL of ShadowImage. Please cancel the pair with MU number other than 0 and try again.	Please cancel the pair with MU number other than 0 and try again.	–
3B0019	DMED3B0019: The firmware cannot be downgraded because the pair with MU number of 14 or more exists in SnapShot logical unit. Please cancel the pair with MU number of 14 or more and try again.	Please cancel the pair with MU number of 14 or more and try again.	–
3B001A	DMED3B001A: The firmware cannot be downgraded because P-VOL with 15 or more SnapShot logical unit exists. Please delete SnapShot logical unit to 14 or less, and try again.	Please delete SnapShot logical unit to 14 or less, and try again.	–
3B001B	DMED3B001B: The firmware cannot be downgraded because the user LU is being used as the pair of Remote Replication. Please cancel the pair and try again.	Please cancel the pair and try again.	–
3B001C	DMED3B001C: The firmware cannot be downgraded because the migrated logical unit exists. Please migrate again.	Please migrate again.	–
3B001D	DMED3B001D: The firmware cannot be downgraded because Volume Migration is installed. Please de-install the option and try again.	Please de-install the option and try again.	–
3B001E	DMED3B001E: The firmware cannot be downgraded because Remote Replication is unlocked. Please lock the option and try again.	Please lock the option and try again.	–
3B001F	DMED3B001F: The firmware cannot be downgraded because Account Authentication is installed. Please de-install the option and try again.	Please de-install the option and try again.	–
3B0020	DMED3B0020: The firmware cannot be downgraded because Power Saving is installed. Please de-install the option and try again.	Please de-install the option and try again.	–
3B0021	DMED3B0021: The firmware cannot be downgraded because the NNCtype2 is equipped. Please confirm the configuration.	Please confirm the configuration.	–
3B0022	DMED3B0022: The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.	Please delete the remote path and try again.	–
3B0023	Hitachi Storage Navigator Modular 2 is less than Ver.7.00.		
	DMED3B0023: The firmware cannot be downgraded because the 8Gbps fibre interface board is equipped. Please retry by using firmware in relation to this interface board.	Please retry by using firmware in relation to this interface board.	–
	Hitachi Storage Navigator Modular 2 is Ver.7.00 or more.		
	DMED3B0023: The firmware cannot be downgraded because the 8Gbps fibre interface board is equipped. Please retry by using firmware in relation to this interface board.	Please retry by using firmware in relation to this interface board.	–
3B0024	DMED3B0024: The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.	Please delete the remote path and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3B0025	DMED3B0025: The process cannot be performed because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.	Please delete the remote path and try again.	–
3B0100	DMED3B0100: The process cannot be performed because the firmware is being replaced. Please wait a moment and then try again.	Please wait a moment and then try again.	–
3B0101	DMED3B0101: The process cannot be performed because the firmware is being replaced. Please wait a moment and then try again.	Please wait a moment and then try again.	–
3B0102	DMED3B0102: The process cannot be performed because the system drive type is unknown. Please replace the system drive with SAS or SATA drive and try again.	Please replace the system drive with SAS or SATA drive and try again.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
3B0103	DMED3B0103: The firmware replacement cannot be performed because the controller 1 is specified. Please replace the firmware from the controller 0. Or the subsystem may have been rebooted during the firmware replacement. Please replace the firmware again, if the firmware revision is not matched between both controllers.	Please replace the firmware from the controller 0. Or the subsystem may have been rebooted during the firmware replacement. Please replace the firmware again, if the firmware revision is not matched between both controllers.	–
3B0104	DMED3B0104: The firmware replacement cannot be performed because firmware replacement of another controller is not completed and the access from hosts is not received. Please perform firmware replacement of this controller again after performing firmware replacement of another controller and completing.	Please perform firmware replacement of this controller again after performing firmware replacement of another controller and completing.	–
3B0106	DMED3B0106: The firmware cannot be downgraded because in the I/O Switch ShadowImage pairs that share the P-VOL, the pair of Paired exists. Please change the ShadowImage I/O Switch Mode to disable or change to states other than Paired and try again.	Please change the ShadowImage I/O Switch Mode to disable or change to states other than Paired and try again.	–
3B0107	DMED3B0107: The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.	Please retry by using firmware in relation to this interface board.	–
3B010A	DMED3B010A: The firmware cannot be downgraded because the non-supported interface board is equipped on the downgraded version. Please retry by using firmware in relation to this interface board.	Please retry by using firmware in relation to this interface board.	–
3B0201	DMED3B0201: The process cannot be performed because Data Retention Utility is installed. Please de-install the option and try again.	Please de-install the option and try again.	–
3B0301	DMED3B0301: Failed to download the ENC firmware. Please replace the controller that is detached and try again.	Please replace the controller that is detached and try again.	–
3C1101	DMED3C1101: The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.	Please change Remote Replication to de-installed and try again.	–
3C1164	DMED3C1164: The firmware cannot be downgraded because the non-supported controller is equipped on the downgraded version. Please retry by using firmware in relation to this controller.	Please retry by using firmware in relation to this controller.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3C1211	DMED3C1211: The firmware cannot be downgraded because the RAID group expansion is now occurring or the RAID group containing unified LU is executed expansion. Please retry after expansion is completed.	Please retry after expansion is completed.	–
3C1212	Hitachi Storage Navigator Modular 2 is less than Ver.6.10.		
	DMED3C1212: The firmware cannot be downgraded because ShadowImage pair is undergoing resynchronization with Quick Mode. Please retry after the resynchronization is completed.	Please retry after the resynchronization is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.6.10 or more.		
	DMED3C1212: The firmware cannot be downgraded because ShadowImage pair of Split Pending or Paired Internally Synchronizing exists. Please retry after status is changed to Split or Paired.	Please retry after status is changed to Split or Paired.	–
3C1214	DMED3C1214: The firmware cannot be downgraded because the Dense Units are connected. Please retry after removing the Dense units or by using another firmware.	Please retry after removing the Dense units or by using another firmware.	–
3C1215	DMED3C1215: The firmware cannot be downgraded because S-VOL of ShadowImage pair is under formatting. Please retry after formatting is completed.	Please retry after formatting is completed.	–
3C1216	DMED3C1216: The firmware cannot be downgraded because Remote Replication is installed. Please change Remote Replication to de-installed and try again.	Please change Remote Replication to de-installed and try again.	–
3C1217	DMED3C1217: The firmware cannot be downgraded because Distributed Mode is Hub. Please change the Distributed Mode to Edge and try again.	Please change the Distributed Mode to Edge and try again.	–
3C1218	DMED3C1218: The firmware cannot be downgraded because Dynamic Provisioning is installed. Please change Dynamic Provisioning to de-installed and try again.	Please change Dynamic Provisioning to de-installed and try again.	–
3C1219	DMED3C1219: The firmware cannot be downgraded because the user whose user authentication is RADIUS exists. Please delete the user whose user authentication is RADIUS and try again.	Please delete the user whose user authentication is RADIUS and try again.	–
3C121A	DMED3C121A: The firmware cannot be downgraded because the number of registered account exceeded the maximum value that can be supported on the downgraded version. Please confirm the number of registered account and try again.	Please confirm the number of registered account and try again.	–
3C121B	DMED3C121B: The firmware cannot be downgraded because the command device that uses the logical unit in the DP pool exists. Please release the command device that uses the logical unit in the DP pool and try again.	Please release the command device that uses the logical unit in the DP pool and try again.	–
3C121C	DMED3C121C: The firmware cannot be downgraded because the DM-LU that uses the logical unit in the DP pool exists. Please release the DM-LU that uses the logical unit in the DP pool and try again.	Please release the DM-LU that uses the logical unit in the DP pool and try again.	–
3C121F	DMED3C121F: The firmware cannot be downgraded because the number of connected subsystem exceeded the maximum value that can be supported on the downgraded version. Please remove drives or use another firmware and then try again.	Please remove drives or use another firmware and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3C1220	DMED3C1220: The firmware cannot be downgraded because the volume migration pair that uses the logical unit in the DP pool exists. Please release the pair and try again.	Please release the pair and try again.	–
3C1221	DMED3C1221: The firmware cannot be downgraded because the state of DP optimization is optimizing. Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.	Please try again, after DP optimization is completed. When the state of DP optimization is failed, cancel DP optimization and then try again.	–
3C1222	DMED3C1222: The firmware cannot be downgraded because SSD is mounted. Please remove SSD or use another firmware and then try again.	Please remove SSD or use another firmware and then try again.	–
3C1223	DMED3C1223: The firmware cannot be downgraded because the number of connected Dense units exceeded the maximum value that can be supported on the downgraded version. Please remove the Dense units or use another firmware and then try again.	Please remove the Dense units or use another firmware and then try again.	–
3C1224	DMED3C1224: The firmware cannot be downgraded because the updating of DP management information is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
3C1225	DMED3C1225: The firmware cannot be downgraded because Advanced Security Mode is enabled. Please change Advanced Security Mode to disabled and try again.	Please change Advanced Security Mode to disabled and try again.	–
3C1227	DMED3C1227: The firmware cannot be downgraded because the SAS drives are mounted in the Dense Units. Please remove the SAS drives or use another firmware and then try again.	Please remove the SAS drives or use another firmware and then try again.	–
3C1228	DMED3C1228: The firmware cannot be downgraded because remote paths are set to an array whose H/W revision is 0200. Please delete remote paths and try again.	Please delete remote paths and try again.	–
3C1229	DMED3C1229: The firmware cannot be downgraded because the logical unit in DP pool exists in a data pool. Please delete the data pool and then try again.	Please delete the data pool and then try again.	–
3C122A	DMED3C122A: The firmware cannot be downgraded because the logical unit in the DP pool is SnapShot pair. Please cancel the pair and then try again.	Please cancel the pair and then try again.	–
3C122B	DMED3C122B: The firmware cannot be downgraded because the logical unit in the DP pool is Remote Replication pair. Please cancel the pair and then try again.	Please cancel the pair and then try again.	–
3C122C	DMED3C122C: The firmware cannot be downgraded because the SAS7K drives are mounted. Please remove the SAS7K drives or use another firmware and then try again.	Please remove the SAS7K drives or use another firmware and then try again.	–
3C122D	DMED3C122D: The firmware cannot be downgraded because specified firmware is not supported on this subsystem. Please use the firmware which supported on this subsystem.	Please use the firmware which supported on this subsystem.	–
3C122E	DMED3C122E: The firmware cannot be downgraded because the memory reconfiguration is in progress or is failed. Please try again, after the memory reconfiguration is completed. When the memory reconfiguration is failed, please remove the cause of the error.	• When the memory reconfiguration is in progress: Please try again, after the memory reconfiguration is completed • When the memory reconfiguration is failed: Please remove the cause of the error.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3C122F	DMED3C122F: The firmware cannot be downgraded because DP capacity mode is Maximum Capacity. Please change the DP capacity mode to Regular Capacity and try again.	Please change the DP capacity mode to Regular Capacity and try again.	–
3C1230	DMED3C1230: The firmware cannot be downgraded because in the ShadowImage pairs that share the P-VOL, more than two ShadowImage pairs are Paired, Synchronizing, Paired Internally Synchronizing, or Split Pending. Please split the remaining pairs after specifying one pair which continues a copy and try again.	Please split the remaining pairs after specifying one pair which continues a copy and try again.	–
3C1231	DMED3C1231: The firmware cannot be downgraded because in the ShadowImage pairs that share the P-VOL, the pair of Failure(S-VOL Switch) exists. Please cancel the ShadowImage pair of Failure(S-VOL Switch) and try again.	Please cancel the ShadowImage pair of Failure(S-VOL Switch) and try again.	–
3C1232	DMED3C1232: The firmware cannot be downgraded because the RAID group which specified I/O monitoring time of Power Saving exists. When the state of Power Saving is Normal (Command Monitoring), please spin down after specifying 0 to I/O monitoring time and try again. When Power Saving does not need to be performed, please spin up and try again.	• When the state of Power Saving is Normal (Command Monitoring), please spin down after specifying 0 to I/O monitoring time and try again. • When Power Saving does not need to be performed, please spin up and try again.	–
3C1233	DMED3C1233: The firmware cannot be downgraded because DP pool of the stripe size 64KB exists. Please delete DP pool of the stripe size 64KB and try again.	Please delete DP pool of the stripe size 64 k bytes and try again.	–
3C1234	DMED3C1234: The firmware cannot be downgraded because specified firmware is not supported on this subsystem. Please use the firmware which supported on this subsystem.	Please use the firmware which supported on this subsystem.	–
3C1235	DMED3C1235: The firmware cannot be downgraded because the logical unit to which Full Capacity Mode is enabled exists. Please disable Full Capacity Mode, and try again.	Please disable Full Capacity Mode, and try again.	"Dynamic Provisioning User's Guide"
3C1236	DMED3C1236: The firmware cannot be downgraded because SAS(SED) drives are mounted. Please remove SAS(SED) drives or use another firmware and then try again.	Please remove SAS(SED) drives or use another firmware and then try again.	Replacement "2.2.1 Replacing Disk Drive" (REP 02-0030)
3C1237	DMED3C1237: The firmware cannot be downgraded because the Standard(SFF) Units are connected. Please retry after removing the Standard(SFF) units or by using another firmware.	Please retry after removing the Standard(SFF) units or by using another firmware.	–
3C1238	DMED3C1238: The firmware cannot be downgraded because the DP pool is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
3C1239	DMED3C1239: The firmware cannot be downgraded because P-VOL of ShadowImage and P-VOL of SnapShot is same logical unit or S-VOL of ShadowImage and P-VOL of SnapShot is the same logical unit. Please cancel the ShadowImage pair or SnapShot pair and try again.	Please cancel the ShadowImage pair or SnapShot pair and try again.	–
3C123B	DMED3C123B: The firmware cannot be downgraded because Data At Rest Encryption is installed. Please change Data At Rest Encryption to de-installed and try again.	Please change Data At Rest Encryption to de-installed and try again.	–
3C123C	DMED3C123C: The firmware cannot be downgraded because the ShadowImage pair whose MU number is 8 or more, or the SnapShot pair whose MU number is 32 or more exists. Please cancel the pair and try again.	Please cancel the pair and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
3C123D	DMED3C123D: The firmware cannot be downgraded because over 2TB SATA drives are mounted. Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.	Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.	–
3C123E	DMED3C123E: The firmware cannot be downgraded because over 2TB SATA drives are mounted. Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.	Please remove over 2TB SATA drives after deleting RAID groups or DP pools containing over 2TB SATA drives or use another firmware and then try again.	–
3C123F	DMED3C123F: The firmware cannot be downgraded because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.	Please delete the remote path and try again.	–
3C12FE	DMED3C12FE: The firmware cannot be downgraded because tape group backed up by append write exists. Please delete or discard tape groups, and try again.	Please delete or discard tape groups, and try again.	–
3C12FF	DMED3C12FF: The firmware cannot be downgraded because tape group targeted differential backup or backed up differential exists. Please delete tape groups, and try again.	Please delete tape groups, and try again.	–
3C1240	DMED3C1240: The firmware cannot be downgraded because the remote path is set up with the array currently connected at the other end. Please delete the remote path and try again.	Please delete the remote path and try again.	–
3D0001	DMED3D0001: The process cannot be performed because the drive firmware is being replaced. Please retry after replacement completes.	Please retry after replacement completes.	–
400001	DMED400001: The process cannot be performed because the specified logical units contain an unformatted LU. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–
400002	DMED400002: The process cannot be performed because the specified logical units contain V-VOL of Snapshot. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–
400003	DMED400003: The process cannot be performed because some logical units are under quick formatting. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–
400004	DMED400004: The process cannot be performed because the specified logical units contain a Sub LU of the unifying LUs. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–
400005	DMED400005: The process cannot be performed because the specified logical units contain an invalid LU. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–
400006	DMED400006: The specified LUs contain regressed LU. Confirm the LU status and try again.	Confirm the LU status and try again.	–
400007	DMED400007: The process cannot be performed because ShadowImage, Remote Replication, or SnapShot is in progress. Please wait a moment and then try again.	Please wait a moment and then try again.	–
400008	DMED400008: The operation of 'start' or 'skip', and 'cancel' is specified at the same time. Confirm the operation and try again.	Confirm the operation and try again.	–
400009	DMED400009: The process cannot be performed because the specified logical units contain an undefined LU. Confirm the logical unit status and try again.	Confirm the logical unit status and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
400011	DMED400011: The process cannot be performed because parity correction is not completed. Please try again, after it is completed.	Please try again, after it is completed.	–
400012	DMED400012: The process cannot be performed because parity correction is not executed or is aborted. Please try again, after it is completed.	Please try again, after it is completed.	–
400013	DMED400013: The process cannot be performed because parity correction is not completed. Please try again, after it is completed.	Please try again, after it is completed.	–
400014	DMED400014: The process cannot be performed because parity correction is not completed. Please try again, after it is completed.	Please try again, after it is completed.	–
400015	DMED400015: The process cannot be performed because parity correction is not executed or is aborted. Please try again, after it is completed.	Please try again, after it is completed.	–
400021	DMED400021: The 'cancel' operation cannot be specified to the uncorrected logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400022	DMED400022: The 'start' operation cannot be specified to the aborted logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400023	DMED400023: The 'cancel' operation cannot be specified to the aborted logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400024	DMED400024: The 'start' operation cannot be specified to the correcting logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400025	DMED400025: The 'skip' operation cannot be specified to the correcting logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400026	DMED400026: The 'start' operation cannot be specified to the waiting logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400027	DMED400027: The 'skip' operation cannot be specified to the waiting logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400028	DMED400028: The 'cancel' operation cannot be specified to the skipped logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
400029	DMED400029: The 'cancel' operation cannot be specified to the corrected logical units. Confirm the parity correction status and try again.	Confirm the parity correction status and try again.	–
40002A	DMED40002A: The logical units are under quick formatting. Please the parity correction status and try again.	Please the parity correction status and try again.	–
500001	DMED500001: The command device is not registered. Please register the command device and try again.	Please register the command device and try again.	–
600001	DMED600001: The process cannot be performed because the specified LU is a Cache Residency LU or a reserved one. Disable the LU, and then try again.	Disable the LU, and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
700001	DMED700001: The specified logical unit is not defined. Specify a defined logical unit.	Specify a defined logical unit.	–
700002	DMED700002: The process cannot be performed because the status of pair is Simplex(SMPL). Confirm the LU status and try again.	Confirm the LU status and try again.	–
800002	DMED800002: A parameter error occurred. Please confirm the specified parameter.	Please confirm the specified parameter.	–
800004	DMED800004: The specified NNC number is not NAS port. Please confirm the port type.	Please confirm the port type.	–
800005	DMED800005: The process cannot be performed because BIOS is being updated. The updating is completed, then try again.	The updating is completed, then try again.	–
800006	DMED800006: The process cannot be performed because NAS OS is not ready or booting, or it is not in shutdown process. Please confirm NAS OS status and then try again.	Please confirm NAS OS status and then try again.	–
800007	DMED800007: The process cannot be performed because BIOS is being updated. The updating is completed, then try again.	The updating is completed, then try again.	–
800008	DMED800008: The process cannot be performed because the install of the NAS OS is not completed. Please try again after install is completed.	Please try again after install is completed.	–
800009	DMED800009: The process cannot be performed because the alternative NNC is not active. Please confirm NNC status and try again.	Please confirm NNC status and try again.	–
800011	DMED800011: The process cannot be performed because NAS OS is loading. Please stop NAS OS, then try again.	Please stop NAS OS, then try again.	–
800013	DMED800013: The process cannot be performed because NAS OS is in shutdown process. Shutdown process is completed, then try again.	Shutdown process is completed, then try again.	–
800014	DMED800014: The process cannot be performed because NAS dump is being collected. The collection is completed, then try again.	The collection is completed, then try again.	–
800015	DMED800015: The process cannot be performed because System LU is not defined. Please define System LU and then try again.	Please define System LU and then try again.	–
800016	DMED800016: The time out occurred during install. Please turn off NNC breaker and turn on it, then try again.	Please turn off NNC breaker and turn on it, then try again.	–
800017	DMED800017: The time out occurred during install. Please turn off NNC breaker and turn on it, then try again.	Please turn off NNC breaker and turn on it, then try again.	–
800019	DMED800019: The process cannot be performed because NAS OS is not in stopped state. Please stop NAS OS, then try again.	Please stop NAS OS, then try again.	–
80001A	DMED80001A: The process cannot be performed because BIOS is being updated. The updating is completed, then try again.	The updating is completed, then try again.	–
80001B	DMED80001B: The process cannot be performed because NAS OS is detached. Please recover NAS OS status and then try again.	Please recover NAS OS status and then try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
800020	DMED800020: The specified IP address is incorrect. Please specify a correct IP address.	Specify a correct IP address.	–
800021	DMED800021: The specified number is incorrect. Please specify a correct number.	Please specify a correct number.	–
800022	DMED800022: The specified MTU is incorrect. Please specify a correct MTU.	Specify the correct MTU.	–
800023	DMED800023: The specified negotiation is incorrect. Please specify a correct negotiation.	Please specify a correct negotiation.	System Parameter "4.2 (3) Setting of LAN" (SYSPR 04-0120)
800024	DMED800024: The process cannot be performed because NAS OS is not ready. Please confirm NAS OS status and then try again.	Please confirm NAS OS status and then try again.	–
800025	DMED800025: The process cannot be performed during NNC LAN setting. Please confirm NAS OS status and then try again.	Please confirm NAS OS status and then try again.	–
800026	DMED800026: The same IP address as the management LAN of the subsystem cannot be set up. Please specify a correct IP address.	Specify a correct IP address.	–
800027	DMED800027: The specified time zone does not have daylight saving time. Please confirm the time zone.	Please confirm the time zone.	–
800029	DMED800029: The process cannot be performed because the MTU value of NNC does not match. Please set up the same MTU value.	Please set up the same MTU value.	–
800030	DMED800030: The process cannot be performed because specified IP address is same as the current IP address of alternative NNC. Please specify another IP address and try again.	Please specify another IP address and try again.	–
900006	DMED900006: The process cannot be performed because the data set does not exist. Please confirm the data set.	Please confirm the data set.	–
901101	DMED901101: The process cannot be performed because the copy or restoration is in progress in the backup group. Please confirm the status of the tape group in the backup group.	Please confirm the status of the tape group in the backup group.	–
901102	DMED901102: The process cannot be performed because the status of another tape group in the backup group is illegal. Please confirm the status of the tape group in the backup group.	Please confirm the status of the tape group in the backup group.	–
908002	DMED908002: The process cannot be performed because Tape Replication is installed. Please change Tape Replication to de-installed and then try again.	Please change Tape Replication to de-installed and then try again.	–
908003	DMED908003: The process cannot be performed because the restoration is in progress. Please try again, after it is completed. Or, please cancel it and then try again.	Please try again, after it is completed. Or, please cancel it and then try again.	–
909113	DMED909113: The process cannot be performed because the version is unmatch between the micro program and the Storage Navigator Modular. Please match the version.	Please match the version.	–
909134	DMED909134: The tape group detail information is invalid.	–	–
909135	DMED909135: The tape group detail information is invalid.	–	–
909136	DMED909136: The tape group detail information is invalid.	–	–
909137	DMED909137: The tape group detail information is invalid.	–	–
909138	DMED909138: The tape group detail information is invalid.	–	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
909139	DMED909139: The tape group detail information is invalid.	–	–
909140	DMED909140: The tape group detail information is invalid.	–	–
909141	DMED909141: The tape group detail information is invalid.	–	–
909142	DMED909142: The tape group detail information is invalid.	–	–
909143	DMED909143: The tape group detail information is invalid.	–	–
909144	DMED909144: The tape information is invalid.	–	–
909145	DMED909145: The tape information is invalid.	–	–
909146	DMED909146: The tape information is invalid.	–	–
9091FF	DMED9091FF: An internal program error occurred in the Tape Replication function. Contact the service personnel.	Contact the service personnel.	–
909201	DMED909201: The data set detail information is invalid.	–	–
909202	DMED909202: The data set detail information is invalid.	–	–
909203	DMED909203: The data set detail information is invalid.	–	–
909204	DMED909204: The data set detail information is invalid.	–	–
909205	DMED909205: The data set detail information is invalid.	–	–
909206	DMED909206: The data set detail information is invalid.	–	–
909207	DMED909207: The data set detail information is invalid.	–	–
909208	DMED909208: The data set detail information is invalid.	–	–
909209	DMED909209: The data set detail information is invalid.	–	–
90920A	DMED90920A: The data set detail information is invalid.	–	–
90920B	DMED90920B: The data set detail information is invalid.	–	–
90920C	DMED90920C: The data set detail information is invalid.	–	–
90920D	DMED90920D: The data set detail information is invalid.	–	–
90920E	DMED90920E: The data set detail information is invalid.	–	–
90920F	DMED90920F: The data set detail information is invalid.	–	–
909210	DMED909210: The data set detail information is invalid.	–	–
909211	DMED909211: The data set detail information is invalid.	–	–
909212	DMED909212: The data set detail information is invalid.	–	–
909213	DMED909213: The process failed due to an invalid parameter. Confirm the specified value.	Confirm the specified value.	–
909214	DMED909214: The data set detail information is invalid.	–	–
909221	DMED909221: The process cannot be performed because the TR constitution file version is incorrect. Please specify a correct file.	Please specify a correct file.	–
909222	DMED909222: The data set number is doubled.	–	–
909223	DMED909223: The process cannot be performed because other users changed the TR constitution information. Please wait for a while and then try again.	Please wait for a while and then try again.	–
909224	DMED909224: The process cannot be performed because other users changed the TR constitution information. Please wait for a while and then try again.	Please wait for a while and then try again.	–
909225	DMED909225: The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape groups.	Please increase the cache memory or delete unnecessary tape groups.	Addition/Removal/ Relocation “1.4.4 Adding a Cache Unit” (ADD 01-0390)
909226	DMED909226: The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape groups.	Please increase the cache memory or delete unnecessary tape groups.	

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
90B018	DMED90B018: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B066	DMED90B066: The process cannot be performed because the TR constitution restoration is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B06E	DMED90B06E: An internal program error occurred in the Tape Replication function. Contact the service personnel.	Contact the service personnel.	–
90B0C8	DMED90B0C8: The process failed due to an invalid parameter. Confirm the specified value.	Confirm the specified value.	–
90B0C9	DMED90B0C9: The process cannot be performed because the logical unit is not targeted differential backup. Please confirm the logical unit.	Please confirm the logical unit.	–
90B0CB	DMED90B0CB: The process cannot be performed because the specified tape group has set to not backup by append write. Please specify another tape group and then try again.	Please specify another tape group and then try again.	–
90B0CC	DMED90B0CC: The process cannot be performed because the logical unit is not used by this differential backup. Please confirm the logical unit.	Please confirm the logical unit.	–
90B0CD	DMED90B0CD: The process cannot be performed because the copy is in progress in the tape group. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0CE	DMED90B0CE: The process cannot be performed because the number of logical units in the tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.	Please discard unnecessary data sets or specify another tape group and try again.	
90B0D0	DMED90B0D0: The process cannot be performed because the number of data sets in the system reached the maximum. Please discard unnecessary tape groups or data sets.	Please discard unnecessary tape groups or data sets.	–
90B0D2	DMED90B0D2: The process cannot be performed because the cache memory size is insufficient. Please increase the cache memory or delete unnecessary tape group.	Please increase the cache memory or delete unnecessary tape group.	Addition/Removal/ Relocation “1.4.4 Adding a Cache Unit” (ADD 01-0390)
90B0D3	DMED90B0D3: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B0D4	DMED90B0D4: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B0D5	DMED90B0D5: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B0D6	DMED90B0D6: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B0D7	DMED90B0D7: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
90B0D8	DMED90B0D8: The process cannot be performed because the pair status of logical unit is illegal. Please confirm the pair status of logical unit.	Please confirm the pair status of logical unit.	–
90B0D9	DMED90B0D9: The process cannot be performed because the number of differential backup to the specified logical unit reached the maximum. Please confirm the backup group.	Please confirm the backup group.	–
90B0DA	DMED90B0DA: The process failed due to an invalid parameter. Confirm the specified value.	Confirm the specified value.	–
90B0DB	DMED90B0DB: The process cannot be performed because the logical unit is not used by this differential backup. Please confirm the logical unit.	Please confirm the logical unit.	–
90B0DD	DMED90B0DD: The process cannot be performed because the status of the tape group is illegal. Please confirm the status of the tape group.	Please confirm the status of the tape group.	–
90B0DE	DMED90B0DE: The process cannot be performed because the number of data sets in the specified tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.	Please discard unnecessary data sets or specify another tape group and try again.	–
90B0DF	DMED90B0DF: The process cannot be performed because the number of tape cartridges in the tape group reached the maximum. Please discard unnecessary data sets or specify another tape group and try again.	Please discard unnecessary data sets or specify another tape group and try again.	–
90B0E0	DMED90B0E0: The process cannot be performed because the specified tape group is already backed up by append write. Please specify the data set and then try again.	Please specify the data set and then try again.	–
90B0E1	DMED90B0E1: The process failed due to an invalid parameter. Confirm the specified value.	Confirm the specified value.	–
90B0E2	DMED90B0E2: The process cannot be performed because the data set does not exist. Please confirm the data set.	Please confirm the data set.	–
90B0E3	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMED90B0E3: The process cannot be performed because the full backup tape group does not exist. Please confirm the tape group.	Please confirm the tape group.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMED90B0E3: The process cannot be performed because the full backup tape group or data set does not exist. Please confirm the tape group or the data set.	Please confirm the tape group or the data set.	–
90B0E4	DMED90B0E4: The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.	Please confirm the status of the data set.	–
90B0E5	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMED90B0E5: The process cannot be performed because the status of the full backup tape group is illegal. Please confirm the status of differential source tape group.	Please confirm the status of differential source tape group.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMED90B0E5: The process cannot be performed because the status of the full backup tape group or data set is illegal. Please confirm the status of the tape group or the data set.	Please confirm the status of the tape group or the data set.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
90B0E6	DMED90B0E6: The process cannot be performed because the restoration is in progress in the tape group. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0E7	Hitachi Storage Navigator Modular 2 is less than Ver.9.70.		
	DMED90B0E7: The process cannot be performed because the restoration of the full backup tape group is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
	Hitachi Storage Navigator Modular 2 is Ver.9.70 or more.		
	DMED90B0E7: The process cannot be performed because the restoration of the full backup tape group or data set is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0E8	DMED90B0E8: The process cannot be performed because the copy is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0E9	DMED90B0E9: The process cannot be performed because the restoration is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0EA	DMED90B0EA: The process cannot be performed because the copy is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0EB	DMED90B0EB: The process cannot be performed because the restoration is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B0EC	DMED90B0EC: The process failed due to an invalid parameter. Confirm the specified value.	Confirm the specified value.	–
90B0ED	DMED90B0ED: The process cannot be performed because the cache memory size is insufficient. Please try again, after other restoration is completed.	Please try again, after other restoration is completed.	–
90B0EE	DMED90B0EE: The process cannot be performed because the logical unit at restoring destination is not a part of ShadowImage pair. Please confirm the pair status of the logical unit.	Please confirm the pair status of the logical unit.	–
90B0EF	DMED90B0EF: The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.	Please specify another tape group and try again.	–
90B0F0	DMED90B0F0: The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.	Please confirm the status of the data set.	–
90B0F1	DMED90B0F1: The process cannot be performed because the restoration is in progress in the backup group. Please confirm the status of the tape group in the backup group.	Please confirm the status of the tape group in the backup group.	–
90B0F2	DMED90B0F2: The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.	Please confirm the status of the data set.	–
90B0F3	DMED90B0F3: The process cannot be performed because the status of the data set is illegal. Please confirm the status of the data set.	Please confirm the status of the data set.	–
90B0F4	DMED90B0F4: The process cannot be performed because the copy is in progress in the backup group. Please confirm the status of the tape group in the backup group.	Please confirm the status of the tape group in the backup group.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
90B0F5	DMED90B0F5: The process cannot be performed because the status of another tape group in the backup group is illegal. Please confirm the status of the tape group in the backup group.	Please confirm the status of the tape group in the backup group.	–
90B0F6	DMED90B0F6: The process cannot be performed because the access level is set to the logical unit. Please confirm the logical unit.	Please confirm the logical unit.	–
90B0FB	DMED90B0FB: The process cannot be performed because the status of the tape group is illegal. Please confirm the status of the data set.	Please confirm the status of the data set.	–
90B0FC	DMED90B0FC: The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.	Please specify another tape group and try again.	–
90B0FD	DMED90B0FD: The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.	Please specify another tape group and try again.	–
90B0FE	DMED90B0FE: The process cannot be performed because the specified tape group is being used by other application. Please specify another tape group and try again.	Please specify another tape group and try again.	–
90B101	DMED90B101: The process cannot be performed because the copy is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B102	DMED90B102: The process cannot be performed because the restoration is in progress. Please try again, after it is completed.	Please try again, after it is completed.	–
90B103	DMED90B103: The process cannot be performed because the memory reconfiguration is in progress. Please try again after the memory reconfiguration is completed.	Please try again after the memory reconfiguration is completed.	–
910072	DMED910072: The process cannot be performed because the specified tape group is impossible to import. Please confirm the tape group.	Please confirm the tape group.	–
91100C	DMED91100C: The process cannot be performed because differential bit map is insufficient. Please delete unnecessary pairs or increase the cache memory.	Please delete unnecessary pairs or increase the cache memory.	Addition/Removal/ Relocation “1.4.4 Adding a Cache Unit” (ADD 01-0390)
C00001	DMEDC00001: The process cannot be performed because the specified group number is outside the effective range. Please confirm the group number.	Please confirm the group number.	–
C00002	DMEDC00002: The process cannot be performed because the specified logical unit number is outside the effective range. Please confirm the logical unit number.	Please confirm the logical unit number.	–
C00003	DMEDC00003: The specified group is not used. Please confirm the group number.	Please confirm the group number.	–
C00004	DMEDC00004: The specified logical unit is not pair. Please confirm the logical unit number.	Please confirm the logical unit number.	–
C00005	DMEDC00005: The specified logical unit is V-VOL. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–
C00006	DMEDC00006: The specified logical unit is not V-VOL. Please specify the logical unit number of V-VOL and try again.	Please specify the logical unit number of V-VOL and try again.	–

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Detail code	Hitachi Storage Navigator Modular 2 indication	Recovery methods	Reference page
C00007	DMEDC00007: The process cannot be performed because the number of pairs reached the maximum. Please confirm the settings of pairs.	Please confirm the settings of pairs.	–
C00008	DMEDC00008: The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.	Please confirm the Pair Name and try again.	–
C00009	DMEDC00009: The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.	Please confirm the Pair Name and try again.	–
C0000A	DMEDC0000A: The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.	Please confirm the Pair Name and try again.	–
C0000B	DMEDC0000B: The process cannot be performed because the same Pair Name exists. Please confirm the Pair Name and try again.	Please confirm the Pair Name and try again.	–
C0000C	DMEDC0000C: The process cannot be performed because the same Group Name exists. Please confirm the Group Name and try again.	Please confirm the Group Name and try again.	–
C0000D	DMEDC0000D: The process cannot be performed because the same Group Name exists. Please confirm the Group Name and try again.	Please confirm the Group Name and try again.	–
C0000E	DMEDC0000E: The specified logical unit is Volume Migration pair. Please specify another logical unit and try again.	Please specify another logical unit and try again.	–

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Chapter 10. Failure Factor Codes of the Modular Volume Migration

Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
258	A hardware failure of the Control Unit was detected during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
260	The incomplete write was detected in the P-VOL during the execution of the Modular Volume Migration.	① 1. Check that the message, "W0L000 (or W0M000) Unreadable PIN detected", "I15300 Data recovery partial" or "I63000 Write uncompleted block detected", is displayed.	–
		2. Remove the incomplete write according to the recovery method of the displayed message code.	–
262	The access to the Disk Drive timed out during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
263	The DMA transfer timed out during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
265	The DMA transfer terminated abnormally in the generation of the parity data during the execution of the Modular Volume Migration.	① 1. Replace the Cache memory installed in the blocked Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		2. Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
268	The LU executing the Modular Volume Migration was blocked. Or one Disk Drive which configures the LU executing the Modular Volume Migration was blocked in the case other than RAID 6, two were blocked in the case of RAID 6, and another one became a Disk Drive failure among the Disk Drives which configure the same RAID Group, so that R/W to the LU became difficult.	① 1. Check if the LU of the P-VOL or the S-VOL is blocked (two Disk Drives which configure the LU are blocked in the case other than RAID 6 and three are blocked in the case of RAID 6).	–
		2. When the LU of the P-VOL or the S-VOL was blocked, recover the LU to "Formatted Logical Unit" referring to Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)" (TRBL 06-0740)
		② 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6, two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 (or I301AT) HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
269	The Control Unit was blocked because the internal processing timed out unjustly during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
270	A data error was detected while executing Modular Volume Migration.	①The cause of the abnormal termination is because the error of the intermittent data was detected. There is no failed part.	–
274	Since the free capacity of the DP pool was depleted while executing Modular Volume Migration, R/W for the LU created in the DP pool cannot be performed.	①Add the DP pool capacity.	–
275	The planned shutdown of the subsystem occurred while executing Modular Volume Migration.	①The cause of the abnormal termination of Modular Volume Migration being executed is because the planned shutdown of the subsystem occurred while executing Modular Volume Migration. There is no failed part.	–
513	The subsystem shut down during the execution of the Modular Volume Migration.	①The cause that the executing Modular Volume Migration terminated abnormally is because the subsystem shut down during the execution of the Modular Volume Migration. There is no failed part.	–
514	The Control Unit was blocked during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
515	The internal retry processing occurred in the Control Unit during the execution of the Modular Volume Migration.	①The cause that the executing Modular Volume Migration terminated abnormally is because the internal retry processing was executed in the Control Unit. There is no failed part.	–
516	A time-out occurred in the DMA transfer during the execution of the Modular Volume Migration.	①Replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
517	The DMA transfer terminated abnormally during the execution of the Modular Volume Migration.	①Replace the Control Unit where a failure occurred.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
518	The DMA transfer terminated abnormally in the generation of the parity data during the execution of the Modular Volume Migration.	① 1. Replace the Cache memory installed in the blocked Control Unit.	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		2. If not recovered yet, replace the blocked Control Unit.	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
519	The resource was not allocated to the LU created in the DP pool while executing Modular Volume Migration	① 1. Check the total capacity and the consumed capacity of the DP pool, and if the free capacity of the DP pool is depleted, add the DP pool capacity.	–
		2. If there is the free capacity, execute it again after waiting for one minute or more.	–

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
520	The internal timeout occurred in I/O received while executing Modular Volume Migration.	① 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6, two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 (or I301AT) HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does Not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does Not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
		② Since the I/O load is high, the resource save took time by competition. Reduce the I/O load to the array subsystem.	–
521	I/O received while executing Modular Volume Migration was not able to be processed in time.	① 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6, two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 (or I301AT) HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does Not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does Not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
		② Since the I/O load is high, the resource save took time by competition. Reduce the I/O load to the array subsystem.	–
769	The number of sub-segments of PIN exceeded the threshold to execute the write through during the execution of the Modular Volume Migration.	① 1. Check that the message, "W3G000 (or W3H000) PIN is over directory threshold", "W3J000 (or W3K000) PIN is over partition threshold" or "W49500 (or W3M000) PIN is over RAID group threshold", is displayed.	–
		2. Recover the PIN over referring to Troubleshooting "6.1.12 A Failure Occurred during Operation: Case 2 (LA/LRC Error)".	Troubleshooting "6.1.12 A Failure Occurred during Operation: Case 2 (LA/LRC Error)" (TRBL 06-0720)
1025	The subsystem shut down during the execution of the Modular Volume Migration, and the data on the Cache memory was lost.	① Recover the consistency of the parity of the LU or execute the restoration of the user data referring to Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)".	Troubleshooting "6.1.3 The Failure Occurred Immediately after Being Ready (Forced Parity Correction)" (TRBL 06-0110)

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
1026	The LU executing the Modular Volume Migration was blocked. Or one Disk Drive which configures the LU executing the Modular Volume Migration was blocked in the case other than RAID 6, two were blocked in the case of RAID 6, and another one became a Disk Drive failure among the Disk Drives which configure the same RAID Group, so that R/W to the LU became difficult.	① 1. Check if the LU of the P-VOL or the S-VOL is blocked (two Disk Drives which configure the LU are blocked in the case other than RAID 6 and three are blocked in the case of RAID 6).	–
		2. When the LU of the P-VOL or the S-VOL was blocked, recover the LU to "Formatted Logical Unit" referring to Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)" (TRBL 06-0740)
		② 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6 and two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 (or I301AT) HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
1027	The data of the DM-LU could not be read because the Disk Drive was blocked at the time of the subsystem start.	① 1. Check that "I6EL00 DM-LU read failed" is displayed in the Information Message on WEB.	–
		2. Remove the cause that the reading of the DM-LU fails according to the recovery method of the message code "I6EL00 DM-LU read failed".	"Chapter 4. Progress Messages" (MSG 04-0000)
1028	Because the Disk Drive which configures the LU was blocked after executing the Modular Volume Migration for the LU during the execution of the forced parity correction, the status of the forced parity correction changed to "Uncorrected and Drive Detached" or "Correction Aborted".	① 1. Check that the status of the LU of the P-VOL or the S-VOL is "Uncorrected and Drive Detached" or "Correction Aborted" from the Hitachi Storage Navigator Modular 2.	–
		2. Recover the consistency of the parity of the LU or execute the restoration of the user data corresponding to the status of the LU checked in ①-1 referring to Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >".	Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >" (TRBL 06-0150)

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
1030	• The LU executing the Modular Volume Migration was blocked. • Or one Disk Drive which configures the LU executing the Modular Volume Migration was blocked in the case other than RAID 6, two were blocked in the case of RAID 6, and another one became a Disk Drive failure among the Disk Drives which configure the same RAID Group, so that R/W to the LU became difficult.	① 1. Check if the LU of the P-VOL or the S-VOL is blocked (two Disk Drives which configure the LU are blocked in the case other than RAID 6 and three are blocked in the case of RAID 6).	–
		2. When the LU of the P-VOL or the S-VOL was blocked, recover the LU to "Formatted LU" referring to Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)" (TRBL 06-0740)
		② 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6 and two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
1032	The difference in LU capacity between the P-VOL and S-VOL has been detected at the time of the subsystem start.	① 1. Delete the pair.	–
		2. Create a LU Migration pair with a reserve LU (S-VOL) of the same size as the P-VOL.	–
1793	Because the Disk Drive which configures the LU was blocked after executing the Modular Volume Migration for the LU during the execution of the forced parity correction, the status of the forced parity correction changed to "Uncorrected and Drive Detached" or "Correction Aborted".	① 1. Check that the status of the LU of the P-VOL or the S-VOL is "Uncorrected and Drive Detached" or "Correction Aborted" from the Hitachi Storage Navigator Modular 2.	–
		2. Recover the consistency of the parity of the LU or execute the restoration of the user data corresponding to the status of the LU checked in ①-1 referring to Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >".	Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >" (TRBL 06-0150)
1794	Because only the number that PIN in the LU was near the threshold was detected after executing the Modular Volume Migration for the LU during the execution of the forced parity correction, the forced parity correction was cancelled.	① 1. Check that "I1GH00 (or I1GJ00, I1GK00) Forced parity correction stopped by too many PINs" is displayed in the Information Message on WEB.	–
		2. Recover the PIN over, recover the consistency of the parity of the LU or restore the user data referring to Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >" and Troubleshooting "6.1.3 [Recovery method-4] Pin over occurred during the forced parity correction".	Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >" (TRBL 06-0150) Troubleshooting "6.1.3 [Recovery method-4] Pin over occurred during the forced parity correction" (TRBL 06-0250)

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
1795	The incomplete write was detected after executing the Modular Volume Migration for the LU executing the forced parity correction.	① 1. Check that "I1GE00 Forced parity correction is stopped [Too many Unreadable PINs" is displayed in the Information Message on WEB.	–
		2. Recover the incomplete write, recover the consistency of the parity of the LU or restore the user data referring to Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >'" and Troubleshooting "6.1.3 [Recovery method-5] Incomplete write occurred during the forced parity correction".	Troubleshooting "6.1.3 < Forced Parity Collection Maintenance Flow >" (TRBL 06-0150) Troubleshooting "6.1.3 [Recovery method-5] Incomplete write occurred during the forced parity correction" (TRBL 06-0270)
2049	The internal processing to switch the owner right of the LU between the Control Unit operated during the execution of the Modular Volume Migration, but the internal processing timed out because the load of I/O to the LU was heavy.	① 1. The cause that the executing Modular Volume Migration terminated abnormally is because the internal processing timed out the heavy load of I/O to the LU of the pair. There is no failed part.	–
		2. If the Modular Volume Migration repeatedly terminates abnormally due to this factor, execute the Modular Volume Migration to the LU before releasing the pair when the load of I/O to the LU of the pair becomes light.	–
2305	The internal timeout occurred in I/O received while executing Modular Volume Migration.	–	–

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
2306	①The LU executing the Modular Volume Migration was blocked. ②Or one Disk Drive which configures the LU executing the Modular Volume Migration was blocked in the case other than RAID 6, two were blocked in the case of RAID 6, and another one became a Disk Drive failure among the Disk Drives which configure the same RAID Group, so that R/W to the LU became difficult. ③The DMA transfer terminated abnormally during the execution of the Modular Volume Migration. ④The DMA transfer terminated abnormally in the generation of the parity data during the execution of the Modular Volume Migration.	① 1. Check if the LU of the P-VOL or the S-VOL is blocked (two Disk Drives which configure the LU are blocked in the case other than RAID 6 and three are blocked in the case of RAID 6).	–
		2. When the LU of the P-VOL or the S-VOL was blocked, recover the LU to "Formatted Logical Unit" referring to Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)" (TRBL 06-0740)
		② 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6, two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to roubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
		③ 1. Replace the Controller where a failure occurred. (Refer to Replacement "2.2.5 Replacing Control Unit".)	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		④ 1. Replace the Cache memory installed in the blocked Controller. (Refer to Replacement "2.2.6 Replacing Cache Unit".)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		2. If not recovered yet, replace the blocked Controller. (Refer to Replacement "2.2.5 Replacing Control Unit".)	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
2307	The planned shutdown of the subsystem occurred while executing Modular Volume Migration.	①The cause of the abnormal termination of Modular Volume Migration being executed is because the planned shutdown of the subsystem occurred while executing Modular Volume Migration. There is no failed part.	–
2308	The internal timeout occurred in I/O received while executing Modular Volume Migration.	–	–
2310	The internal timeout occurred in I/O received while executing Modular Volume Migration.	–	–
2311	Since the free capacity of the DP pool was depleted while executing Modular Volume Migration, R/W for the LU created in the DP pool cannot be performed.	①Add the DP pool capacity.	–
2312	Since the free capacity of the DP pool was depleted while executing Modular Volume Migration, R/W for the LU created in the DP pool cannot be performed.	①Add the DP pool capacity.	–

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Failure factor codes	Factors of the abnormal termination	Recovery method	Reference page
2313	①The LU executing the Modular Volume Migration was blocked. ② Or one Disk Drive which configures the LU executing the Modular Volume Migration was blocked in the case other than RAID 6, two were blocked in the case of RAID 6, and another one became a Disk Drive failure among the Disk Drives which configure the same RAID Group, so that R/W to the LU became difficult. ③ The DMA transfer terminated abnormally during the execution of the Modular Volume Migration. ④ The DMA transfer terminated abnormally in the generation of the parity data during the execution of the Modular Volume Migration.	① 1. Check if the LU of the P-VOL or the S-VOL is blocked (two Disk Drives which configure the LU are blocked in the case other than RAID 6 and three are blocked in the case of RAID 6).	–
		2. When the LU of the P-VOL or the S-VOL was blocked, recover the LU to "Formatted Logical Unit" referring to Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)".	Troubleshooting "6.1.13 A Failure Occurred during Operation: Case 3 (LU Blockade)" (TRBL 06-0740)
		② 1. Check that one Disk Drive which configures the LU of the P-VOL or the S-VOL is blocked in the case other than RAID 6, two are blocked in the case of RAID 6, and another one becomes a Disk Drive failure "I30100 HDU error" among the Disk Drives which configure the same RAID Group.	–
		2. Recover the failure of the Disk Drive referring to Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)".	Troubleshooting "6.1.9 Data Recovery does not Terminate Normally: Case 2 (Disk Drive Failure)" (TRBL 06-0650)
		③ 1. Replace the Controller where a failure occurred. (Refer to Replacement "2.2.5 Replacing Control Unit".)	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)
		④ 1. Replace the Cache memory installed in the blocked Controller. (Refer to Replacement "2.2.6 Replacing Cache Unit".)	Replacement "2.2.6 Replacing Cache Unit" (REP 02-0640)
		2. If not recovered yet, replace the blocked Controller. (Refer to Replacement "2.2.5 Replacing Control Unit".)	Replacement "2.2.5 Replacing Control Unit" (REP 02-0450)

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