

Hitachi Advanced Server DS120 G2/DS220 G2 BMC Release Notes

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About this document

This document (RN-97HAS023-03, March 2024) provides late-breaking information about Hitachi DS120 G2/DS220 G2 BMC v3.32.06. It includes information that was not available at the time the technical documentation for this product was published, as well as a list of known problems and solutions.

Intended audience

This document is intended for customers and Hitachi Vantara partners who license and use Hitachi DS120 G2/DS220 G2 servers.

Getting help

Hitachi Vantara Support Connect is the destination for technical support of products and solutions sold by Hitachi Vantara. To contact technical support, log on to Hitachi Vantara Support Connect for contact information:

https://support.hitachivantara.com/en_us/contact-us.html.

Hitachi Vantara Community is a global online community for customers, partners, independent software vendors, employees, and prospects. It is the destination to get answers, discover insights, and make connections. **Join the conversation today!** Go to community.hitachivantara.com, register, and complete your profile.

Comments

Please send comments to doc.comments@hitachivantara.com. Include the document title and number, including the revision level (for example, -07), and refer to specific sections and paragraphs whenever possible. All comments become the property of Hitachi Vantara LLC.

Thank you!

Accessing product documentation

Product user documentation is available on the Hitachi Vantara documentation website: <https://docs.hitachivantara.com>. Check this site for the most current documentation, including important updates that may have been made after the release of the product.

Accessing product downloads

Product software, drivers, and firmware downloads are available on the Hitachi Vantara Support Website: <https://support.hitachivantara.com/>.

Log in and select Product Downloads to access the most current downloads, including important updates that may have been made after the release of the product.

S5XH/S5XQH series AST2500(A2) BMC FW Release v3.65.06

Version: 3.65.06

Release Date: 2023.12.21

AMI Subversion Revision: AMI SPX RR12.6

Code Base: 3.60

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.28)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.65.06_rom.ima with checksum : FE8842AC
2. s5xhv3.65.06_rom.ima with MD5 checksum :
c57029b007d1b59fac0a51d2581759c6
3. s5xhv3.65.06_rom.ima_enc with MD5 checksum :
d25fe2d73f79699afe31ed83ed0780ac

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R04_20220422.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R04_20220422.xml

Change/Add/Remove

S5XH/S5XQH:

NA.

Bugs Fixed

S5XH/S5XQH:

1.[Redfish][436311]The setting of RAID in WebUI is different with Redfish URL /redfish/v1/Systems/Self/VDR.

Known Issues

S5XH/S5XQH:

1.[BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)

2.[BMC] Sometimes Audit Log will not record IPMI Power action.

3.[BMC][405366] LDAP account user1 access /Managers, the Status Code will return 401.

4.[BIOS][409722]BMC sensor "Temp_OCP_ASIC" and "Temp_OCP_Trasv" status is "na" during AC cycle/reboot.

5.[BMC][416963]The redfish will response error message and status code is 400 after enable ActiveDirectory Service via redfish.

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.
14. Please use Yafuflash version 6.86.28 if your BMC version is after 3.34.
15. Please update BMC twice to make sure the both image version is the same.(3.65.06).

S5XH/S5XQH series AST2500(A2) BMC FW Release v3.64.06

Version: 3.64.06

Release Date: 2023.09.22

AMI Subversion Revision: AMI SPX RR12.6

Code Base: 3.60

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.28)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.64.06_rom.ima with checksum : FE88331A
2. s5xhv3.64.06_rom.ima with MD5 checksum :
48b2feab0ed29cbe0837525efacf473a
3. s5xhv3.64.06_rom.ima_enc with MD5 checksum :
32810d5b67c6ae18fb244a832d33c6d1

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R04_20220422.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R04_20220422.xml

Change/Add/Remove

S5XH/S5XQH:

NA.

Bugs Fixed

S5XH/S5XQH:

1. [BMC] [425953]The value of RMCP+ Cipher Suites is empty via IPMI lan print 1.

Known Issues

S5XH/S5XQH:

- 1.[BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)
- 2.[BMC] Sometimes Audit Log will not record IPMI Power action.
- 3.[BMC][405366] LDAP account user1 access /Managers, the Status Code will return 401.
- 4.[BIOS][409722]BMC sensor "Temp_OCP_ASIC" and "Temp_OCP_Trasv" status is "na" during AC cycle/reboot.
- 5.[BMC][416963]The redfish will response error message and status code is 400 after enable ActiveDirectory Service via redfish.

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.
14. Please use Yafuflash version 6.86.28 if your BMC version is after 3.34.

S5XH/S5XQH series AST2500(A2) BMC FW Release v3.63.06

Version: 3.63.06

Release Date: 2023.06.21

AMI Subversion Revision: AMI SPX RR12.6

Code Base: 3.60

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.28)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.63.06_rom.ima with checksum : FE8E1E1E
2. s5xhv3.63.06_rom.ima with MD5 checksum :
6a5d076be57a683484f8b14e32e004a9
3. s5xhv3.63.06_rom.ima_enc with MD5 checksum :
f6c9c6d301b1f8b79993f8f9a7905df6

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R04_20220422.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R04_20220422.xml

Change/Add/Remove

S5XH/S5XQH:

- 1.[BMC/BIOS][Add] Implement Intel PPR function.

Bugs Fixed

S5XH/S5XQH:

1. [BMC][420231] WebUI show wrong device name with add-on card(Model:E810-XXVDA4T VendorPN:E810XXVDA4TGG1)

Known Issues

S5XH/S5XQH:

- 1.[BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)
- 2.[BMC] Sometimes Audit Log will not record IPMI Power action.
- 3.[BMC][405366] LDAP account user1 access /Managers, the Status Code will return 401.
- 4.[BIOS][409722]BMC sensor "Temp_OCP_ASIC" and "Temp_OCP_Trasv" status is "na" during AC cycle/reboot.

5.[BMC][416963]The redfish will response error message and status code is 400 after enable ActiveDirectory Service via redfish.

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.
14. Please use Yafuflash version 6.86.28 if your BMC version is after 3.34.

S5XH series AST2500(A2) BMC FW Release v3.35.06

Version: 3.35.06

Release Date: 2023.03.20

AMI Subversion Revision: AMI SPX RR12.3

Code Base: 3.15

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.05)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.35.06_rom.ima with checksum : 01236872
2. s5xhv3.35.06_rom.ima with MD5 checksum :
c77823b6e7b2e1e2f17f6b1923bd4801
3. s5xhv3.35.06_rom.ima_enc with MD5 checksum :
3afb0b80cad00a30534931fcf78c3c36

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R02_20210420.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R02_20210420.xml

Change/Add

S5XH/S5XQH:

N/A

Bugs Fixed

S5XH/S5XQH:

1. [Fix] SNMPv3 walk to FRU will timeout if no OCP Card inserted.

Known Issues

S5XH/S5XQH:

1. [BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)
2. [BMC][389190]Lost RKVM virtual device "Hard Disk/USB" during DC cycle over 100 cycles.(Only JViewer has this issue, H5Viewer is pass.)
3. [Redfish][390845]Redfish will not log "Timestamp clock sync event is first of pair - Asserted" event after disabled automatic NTP Date & Time via WebUI.
4. [BMC][387117]BMC sensor "Temp_OCP_ASIC" status is "na" during DC/AC cycle.(INTEL E810 known issue).
5. [BMC][390757]BMC webUI didn't block use root default password(less 8 character) to save SNMPv3 setting.

6. [Redfish][382750]GET /redfish/v1/Chassis/Self/NetworkAdapters/DevType7_NICX, The "Manufacturer" doesn't display.
7. [BMC][RAID][413393] The IPMI Main will crash if the user inserts too many SSD in S5XQH and create/delete the Logical device in WEBUI and RESTFul command.(Need to do BMC reboot if the issue occurs)

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.

S5XH series AST2500(A2) BMC FW Release v3.34.06

Version: 3.34.06

Release Date: 2022.12.09

AMI Subversion Revision: AMI SPX RR12.3

Code Base: 3.15

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.05)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.34.06_rom.ima with checksum : 012A3162
2. s5xhv3.34.06_rom.ima with MD5 checksum :
5d96af168755fbefbc228d891a0105c4c
3. s5xhv3.34.06_rom.ima_enc with MD5 checksum :
0b3d02dc4071b7a28ad04b5f562869f1

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R02_20210420.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R02_20210420.xml

Change/Add

S5XH/S5XQH:

N/A

Bugs Fixed

S5XH/S5XQH:

1. [Fix-BMC] [390066]BMC webUI system inventory page, power info show "Limit in Watts" and "Limit Exception" value as NA.
2. [Fix-Redfish] [390711]Use redfish /redfish/v1/UpdateService/upload CPLD,BMC sel log didn't record "CPLD image update - CPLD image update success".
3. [Fix-BMC] [390713]BMC should blocked SUT is power on status to update CPLD via redfish /redfish/v1/UpdateService/upload.
4. [Fix-BMC][390997]The SEL "PCIe Bus Correctable/Uncorrectable/Fatal Error (Bus 16 / Dev 02 / Fun 00)" & "ManufacturerID: 000315/ VID: 8086/ DID: 347D/ ErrorID: 24 Slot: Undefined (17-02)" mismatch spec.
5. [Fix-Redfish][382763]GET /redfish/v1/Chassis/Self/NetworkAdapters/DevType7_NICX, The "FirmwarePackageVersion" doesn't display version.
6. [Fix-BMC][406049] BMC can't mount SD card after AC cycle randomly. (Fail rate: 5/10)
7. [Fix-BMC] Fix SNMP service will be down if the BMC has inserted RAID Card.
8. [Fix-BMC] Fix CVE-2022-40259, CVE-2022-2827.

Known Issues

S5XH/S5XQH:

1. [BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)
2. [BMC][389190]Lost RKVM virtual device "Hard Disk/USB" during DC cycle over 100 cycles.(Only JViewer has this issue, H5Viewer is pass.)
3. [Redfish][390845]Redfish will not log "Timestamp clock sync event is first of pair - Asserted" event after disabled automatic NTP Date & Time via WebUI.
4. [BMC][387117]BMC sensor "Temp_OCP_ASIC" status is "na" during DC/AC cycle.(INTEL E810 known issue).
5. [BMC][390757]BMC webUI didn't block use root default password(less 8 character) to save SNMPv3 setting.
6. [Redfish][382750]GET /redfish/v1/Chassis/Self/NetworkAdapters/DevType7_NICX, The "Manufacturer" doesn't display.
7. [BMC][RAID][413393] The IPMI Main will crash if the user inserts too many SSD in S5XQH and create/delete the Logical device in WEBUI and RESTFul command.(Need to do BMC reboot if the issue occurs)

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.

6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AML.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.

S5XH series AST2500(A2) BMC FW Release v3.33.06

Version: 3.33.06

Release Date: 2022.06.23

AMI Subversion Revision: AMI SPX RR12.3

Code Base: 3.15

DMTF Redfish Specification version: 1.8

Utility

1. Yafuflash (version 6.86.05)

Prerequisites

1. Please install the ipmitool.

Firmware Images

1. s5xhv3.33.06_rom.ima with checksum : 014DFA8E
2. s5xhv3.33.06_rom.ima with MD5 checksum :
f32ca99fc5238714b828e7d55b8391be
3. s5xhv3.33.06_rom.ima_enc with MD5 checksum :
8041f2face8647fee1b5c1c0b9979ebb

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R02_20210420.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R02_20210420.xml

Change/Add

S5XH/S5XQH:

1. [Add] [Redfish] Redfish API of Virtual Drive Information.(redfish/v1/Systems/Self/VDR)

Bugs Fixed

S5XH/S5XQH:

- 1.[Fix-BMC] Sometimes S5XQH NVMeSSD Temp or HDD status will shows abnormal reading.
- 2.[Fix-BMC] 393198 - Fix WEB UI Services page, lost "solssh" and "ssh" items.

Known Issues

S5XH/S5XQH:

1. [BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)
2. [BMC][389190]Lost RKVM virtual device "Hard Disk/USB" during DC cycle over 100 cycles.(Only JViewer has this issue, H5Viewer is pass.)

Notice

1. For S5XQH, only support HW FAB4, FAB6 and FAB7.
2. For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
3. For S5XQH, updating from 2.18 to 2.21, please use the socflash.
4. The password strength must be set at least 8 letters.
5. For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
6. If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
7. For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
8. If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
9. BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
10. RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
11. There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
12. Didn't support OEM privilege.
13. Please use Yafuflash version 6.86.05 if your BMC version is after 3.15.

S5XH series AST2500(A2) BMC FW Release v3.32.06

Version: 3.32.06

Release Date: 2022.03.31

AMI Subversion Revision: AMI SPX RR12.3

Code Base: 3.15

DMTF Redfish Specification version: 1.8

Utility

- 1) Yafuflash (version 6.86.05)

Prerequisites

- 1) Please install the ipmitool.

Firmware Images

- 1) s5xhv3.32.06_rom.ima with checksum : 01493CB4
- 2) s5xhv3.32.06_rom.ima with MD5 checksum :
13569cb8ed7a5cff5f8c8033809873b2
- 3) s5xhv3.32.06_rom.ima_enc with MD5 checksum :
4be269b6858332537fd08529e7798c7b

Fan Table

Version:

S5X:

sku0: S5X_3.5_R06_20210122 .xml

sku1~2: S5X_2.5_R06_20210122 .xml

S5XQ:

sku3~4: S5XQ_QCT_3p5_FSC_Table_R02_20210420.xml

sku5~8: S5XQ_QCT_2p5_FSC_Table_R02_20210420.xml

Change/Add

S5XH/S5XQH:

1. [CS-BMC] Add IPv6 information add in WEB UI System Inventory.
3. [CS-BMC] Add BMC Remote Debug Console function.
4. [BMC] Can read Intel E810 OCP 3.0 Card ASIC temp.
5. [BMC] External reset function(Use CPLD v8 to verify).

Bug Fixed

S5XH/S5XQH:

- 1) [Fix] #387151, The viewer expiry date closer than one month, will pop up SEL every day.
- 2) [Fix] #383441, SEL did not record "BIOS image update fail-incorrect image file" after flash BIOS bin file via Yafuflash 6.86.05.
- 3) [Fix] #385202, Fix CPLD success log.
- 4) [Fix] #387658, Fix BMC "Temp_Inlet Upper Non-Recoverable - Going High" SEL severity.
- 5) [Fix] #382106#382088, Add mutex on coreAPI to fix watchdog timeout issue.
- 6) [Fix] #387846, In band linux.sh still preserve config after BMC update.
- 7) [Fix] #386839, Dashboard UI show sel log classification is abnormal when user login and logout via ipv6.
- 8) [Fix] #386669 The case in WebUI Services "Cd-media" and "Hd-media" is different between browser firefox and chrome
- 9) [Fix] #385387 BMC sel record "Login success" event when change user password via WEBUI.la
- 10) [Fix] #383314, BMC SEL record "System Firmware #0x8d | Unknown Error | Asserted" during DC cycle 12 hrs (loop: 3)(Similar issue 383009)
- 11) [Fix] #383009, BMC logs "System Firmwares POST Error | Unknown Error | Asserted" event during RHEL 8.3 warm boot cycle test around 126 loops
- 12) [Fix] #386914, Base on BMC STD meeting, BMC update via Redfish 1.8 only support preserve all and non-preserve all.
- 13) [Fix][371183] BMC should not have "Firmware been update..." message when verify fail with upload other project BMC image.
- 14) [Fix] CPLD upgrade FW failed.

- 15) [Fix][363296] Redfish Administrator password did not restore to default after restore default via OEM command.
- 16) [Fix][382345]POST /redfish/v1/Managers/Self/Actions/Manager.FactoryReset without reset.
- 17) [Fix][382210] Set Mount CD/DVD and Hard disk in WebUI Media Redirection failed.
- 18) [Fix][381719] NIC Controller Information page end page have a little edition type problem.
- 19) [Fix]Power_FANG0 value is double than Power_FANG1 when same duty.
- 20) [Fix]Receiver second source will trigger many interrupts to make BMC hang up.
- 21) [Fix][381612]WebUI System Inventory Thermal tab page Temperature info sensor reading value have wrong value "NaN".
- 22) [Fix][384018]IPv4 value change to strange value after BMC does not accept invalid value and then refresh page.
- 23) [Fix][353835]Dashboard UI show sel log classification is abnormal when user login and logout.
- 24) [Fix][384033]Use Firefox to first open BMC web, after accepting the unsecure certificate, Firebox will reply to session time out (User have not login)
- 25) [Fix][381373]The Board Extra data will disappear in FRU info when Board Extra key-in just one character
- 26) [Fix][382494]After BMC cold reset will found an incorrect event "Management controller off-line (undefined event in Data2) - Asserted"
- 27) [Fix][372751]BMC password will be changed after restoring previously-saved configuration file via WebUI, user cannot login to BMC
- 28) [Fix][383509]BMC can accept 0.0.0.0 as IPv4 default Gateway, It is against help info and SPX_User_Guide-RR12_v170
- 29) [Fix][352256]Temp_NVMeSSD & T_SSD_Highest sometimes get ns during system stress (system & iperf & GPU)
- 30) [Fix][383713]Role group cannot save when Group Privilege are "User" and "None"
- 31) [Fix][382060]intel E810 OCP card temperature sensor no reading
- 32) [Fix][381437]During AC cycle NVMe temp sensors and T_SSD_Highest sensor will become disabled sensors and get reading value is "NA".
- 33) [Fix][347346]BMC SEL some items get "Upper Critical - Going High" and reading degree does not match sdr during idle overnight.
- 34) [Fix][382477]SEL "BMC boot from image-2" record during 12 hrs DC power cycle.
- 35) [Fix][382472]BMC reset during DC power cycle in loop6, BMC record Version Change event.
- 36) [Fix][386803]The case in WebUI Services "Cd-media" and "Hd-media" is different between browser firefox and chrome.
- 37) [Fix][385766]BMC sel record "Login success" event when change user password via WEBUI.

- 38) [Fix][383500]BMC SEL record "System Firmwares #0x8d | Unknown Error | Asserted" during DC cycle 12 hrs(loop: 3)(Similar issue 383009)
- 39) [Fix][387124] Based on BMC STD meeting, BMC update via Redfish 1.8 only support preserve all and non-preserve all.
- 40) [Fix][343421]BMC sel record "BIOS image update" events during BIOS update via Yafuflash does not define in event log table.
(QCI_BMC_EventLogTable_v5_00
- 41) [Fix][382763]GET /redfish/v1/Chassis/Self/NetworkAdapters/DevType7_NICX, The "FirmwarePackageVersion" does not display version
- 42) [Fix][382750]GET /redfish/v1/Chassis/Self/NetworkAdapters/DevType7_NICX, The "Manufacturer" does not display
- 43) [Fix][381612]WebUI System Inventory Thermal tab page Temperature info sensor reading value have wrong value "NaN".
- 44) [Fix][381373]The Board Extra data will disappear in FRU info when Board Extra key-in just one character.
- 45) [Fix][382250]AuditLog Entries message content "transfer protocol" is different with old version of BMC.
- 46) [Fix][385781]The WebUI SSL info did not restore to default after update BMC FW via redfish with only preserve redfish.
- 47) [Fix][385303]The BMC Time zone will restore to default value after update BMC FW via redfish with preserve NTP.
- 48) [Fix][385309]User cannot access WebUI/Redfish after update BMC FW via redfish with preserve AUTH.
- 49) [Fix][385380]The Media Redirection settings will restore to default and WebUI will popup warning message after update BMC FW via redfish with preserve KVM.
- 50) [Fix][386462]The value of HddWeight with HDD quantity does not match spec: FSC Table_R08_20211214_Quartet_Duet.
- 51) [Fix][386554]Should include "Yafuflash version", "Code Base" and "DMTF Redfish Specification version" information in release note.
- 52) [Fix][386818]SMASH service does not ready after BMC restore factory defaults 300 seconds, this behavior mismatch with std BMC FW spec definition.
- 53) [Fix][385784]Setup "Default Gateway IP" via IPMITOOL will show strange information and make gateway ip to strange value.

Known Issues

S5XH/S5XQH:

- 54) [Redfish] Hitachi requirements is not ready. (Virtual Drive Information)
- 55) [BMC][373410]LDAP settings "Encryption Type" choose "StartTLS" with server address is IPv6, the LDAP user cannot login WebUI success. (Server address use IPv4 is pass.)

56) [BMC][389190]Lost RKVM virtual device "Hard Disk/USB" during DC cycle over 100 cycles.(Only JViewer has this issue, H5Viewer is pass.)

Notice

- 57) For S5XQH, only support HW FAB4, FAB6 and FAB7.
- 58) For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 59) For S5XQH, updating from 2.18 to 2.21, please use the socflash.
- 60) The password strength must be set at least 8 letters.
- 61) For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 62) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 63) For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 64) If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
- 65) BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
- 66) RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task redy 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.
- 67) There is a limitation for bmc downgrade to 3.05 from 3.15, yafuflash tool and update function has update by AMI.
- 68) Did not support OEM privilege.
- 69) Please use Yafuflash version 6.86.05 if your BMC version is after 3.15

S5XH series AST2500(A2) BMC FW Release v3.16.06

Version: 3.16.06

Release Date: 2021.11.10

AMI Subversion Revision: AMI SPX RR12.3

Code Base: 3.05

DMTF Redfish Specification version: 1.8

Utility

- 1) Yafuflash (version 6.85.00)

Prerequisites

- 1) Please install the ipmitool.

Firmware Images

- 1) s5xhv3.16.06_rom.ima with checksum : 1968E0CA
- 2) s5xhv3.16.06_rom.ima with MD5 checksum :
6a5b04b75a3c80085567a31b5f9692a8
- 3) s5xhv3.16.06_rom.ima_enc with MD5 checksum :
db3c633d335a88d57c8c286ef9e66945

Fan Table

Version:

S5X:

SKU 0 : R05 (S5X_3.5_R06_20210122)

SKU 1~2 : R05 (S5X_2.5_R06_20210122)

S5XQ:

SKU 3~8 : R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221,
S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

S5XH/S5XQH:

N/A

Bug Fixed

S5XH/S5XQH:

- 1) [Redfish] Fix customer Redfish unstable issue.(Redfish error code 500, 503)
(Get Power State: - PUMADEV-2894), (Get system drives – PUMADEV-2902),
(Clear system logs – PUMADEV-2900), (Get Device UUID – PUMADEV-2901)

Known Issues

S5XH/S5XQH:

- 1) [Redfish] Hitachi requirements is not ready. (Virtual Drive Information)
- 2) [Redfish] Will get "Unknown" Sensor type via Redfish Logs.
- 3) [BMC] BMC sometimes will log "Unknown | sensor of type Unknown | (Unknown OEM D0 SEL)" SEL Log event.

Notice

- 1) For S5XQH, only support HW FAB4, FAB6 and FAB7.
- 2) For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 3) For S5XQH, updating from 2.18 to 2.21, please use the socflash.

- 4) The password strength must be set at least 8 letters.
- 5) For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 6) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 7) For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 8) If upgrade BMC from 3.02.06 to ~3.15.06, please use SOCFlash.
- 9) BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
- 10) RKVM(H5viewer) on webui might connect fail and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task reday 5 minute after AC on/BMC cold reset. Then user can use RKVM normally. If webui fail to open after RKVM(H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.

S5XH series AST2500(A2) BMC FW Release v3.14.06

- Version: 3.14.06
- Release Date: 2021.07.23
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification version: 1.8

Utility

- Yafuflash (version 6.85.00)

Prerequisites

- Install ipmitool.

Firmware Images

- 1) s5xhv3.14.06_rom.ima with checksum: 196438E6
- 2) s5xhv3.14.06_rom.ima with MD5 checksum:
c4168f3d0a45f473a50b379493adb29c
- 3) s5xhv3.14.06_rom.ima_enc with MD5 checksum:
dae4f90c58aa32b083795362e1b03a4c

Fan Table

Version:

- S5X:
 - o SKU 0: R05 (S5X_3.5_R06_20210122)
 - o SKU 1~2: R05 (S5X_2.5_R06_20210122)
- S5XQ:
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

N/A

Bugs Fixed

S5XH/S5XQH:

- 1) [Redfish] Fix Redfish not ready issue.
- 2) [BMC] When user Local time zone is GMT -X will cause BMC Event Log keep processing.
- 3) [BMC] WEB UI System Inventory will not show full information.
- 4) [BMC] WEB UI Settings --> NIC Management will not show NIC Cards Information.
- 5) [BMC] Use Yafuflash to update BIOS with preserve script will not preserve BIOS settings.

Known Issues

[Redfish] Hitachi requirements are not ready. (Virtual Drive Information)

- 1) [Redfish] Will get "Unknown" Sensor type via Redfish Logs.
- 2) [Redfish] Insert Intel NIC Card will let WEB UI System Inventory to need more time to get information.
- 3) [BMC] BMC sometimes will log "Unknown | sensor of type Unknown | (Unknown OEM D0 SEL)" SEL Log event.

Notes

- 1) For S5XQH, only support HW FAB4, FAB6 and FAB7.
- 2) For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 3) For S5XQH, updating from 2.18 to 2.21, please use the socflash.
- 4) The password strength must be set at least 8 letters.
- 5) For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 6) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 7) For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 8) If upgrade BMC from 3.02.06 to 3.12.06, please use SOCFlash.
- 9) BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
- 10) RKVM (H5viewer) on webui might fail to connect and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task ready 5 minutes after AC on/BMC cold reset. Then user can use RKVM normally. If webui fails to open after RKVM (H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5

S5XH series AST2500(A2) BMC FW Release v3.13.06

- Version: 3.13.06
- Release Date: 2021.06.17
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification version: 1.8

Utility

- Yafuflash (version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.13.06_rom.ima with checksum: 1962C3E3
- 2) s5xhv3.13.06_rom.ima with MD5 checksum:
e54375cd403002d20cfe741cb07bb2ba
- 3) s5xhv3.13.06_rom.ima_enc with MD5 checksum:
0601213a2963c0853a9a563c43642006

Fan Table

Versions:

- S5X:
 - o SKU 0: R05 (S5X_3.5_R06_20210122)
 - o SKU 1~2: R05 (S5X_2.5_R06_20210122)
- S5XQ:
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

N/A

Bugs Fixed

S5XH/S5XQH:

- 1) [BMC] Fix caterr issue.[BMC] Fix conf protect while AC lost.
- 2) [BMC] Fix Nvme rear temp.
- 3) [BMC] Fix fan reading overflow.
- 4) [BMC] Fix AC lost event.
- 5) [BMC] Fix yafuflash update bmc.

Known Issues

- 1) [Redfish] Hitachi requirements are not ready. (Virtual Drive Information)

Notes

- 1) For S5XQH, only support HW FAB4, FAB6 and FAB7.
- 2) For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 3) For S5XQH, updating from 2.18 to 2.21, please use the socflash.
- 4) The password strength must be set at least 8 letters.
- 5) For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 6) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 7) For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 8) If upgrade BMC from 3.02.06 to 3.12.06, please follow below method:

Method 1: follow the steps below:

Step1: ipmitool raw 0x32 0x8f 0x01 0x02

Step2: ipmitool mc reset cold

Step2-1: Wait BMC Ready

Step3: ipmitool raw 0x32 0x8f 0x01 0x04

Step4: update 3.05 via webui or yafuflash

If both fail, please use socflash for 3.05.

- 9) BMC update via redfish will fail from the old version (~3.02) to new version (3.03~), please use webui or yafuflash update at this case.
- 10) RKVM (H5viewer) on webui might fail to connect and then close the window

within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task ready 5 minutes after AC on/BMC cold reset. Then user can use RKVM normally. If webui fails to open after RKVM (H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.

S5XH series AST2500(A2) BMC FW Release v3.12.06

- Version 3.12.06
- Release Date: 2021.05.28
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification Version 1.8

Utility

- Yafuflash (version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.12.06_rom.ima with checksum: 19B2C7F2
- 2) s5xhv3.12.06_rom.ima with MD5 checksum:
b0bebd631c1128169b93cbd0579c78d4
- 3) s5xhv3.12.06_rom.ima_enc with MD5 checksum:
3c224ae3079cf9bcf592db61f182f97f

Fan Table

Versions:

- S5X:
 - o SKU 0: R05 (S5X_3.5_R06_20210122)
 - o SKU 1~2: R05 (S5X_2.5_R06_20210122)
- S5XQ:
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

- S5XQH:
 - 1) [BMC] Add Fan STB on event by OCP.

Bugs Fixed

N/A

Known Issues

- 1) [BMC] For S5XH, PSU LED and BP LED will be LID if insert Intel OCP 3.0 Card even is Power Off.
- 2) [BMC] Insert Intel OCP 3.0 Card may cause Redfish and WEB UI cannot get Processors information and DIMM Info.
- 3) [Redfish] Hitachi requirements are not ready. (Virtual Drive Information)

Notes

- 1) For S5XQH, only support HW FAB4, FAB6 and FAB7.
- 2) For S5XQH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 3) For S5XQH, updating from 2.18 to 2.21, please use the socflash.
- 4) The password strength must be set at least 8 letters.
- 5) For S5XQH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 6) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 7) For S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 8) If upgrade BMC from 3.02.06 to 3.12.06, please follow below method:

Method 1: follow below step:

Step1: ipmitool raw 0x32 0x8f 0x01 0x02

Step2: ipmitool mc reset cold

Step2-1: Wait BMC Ready

Step3: ipmitool raw 0x32 0x8f 0x01 0x04

Step4: update 3.05 via webui or yafuflash

If both fail, please use socflash for 3.05.

- 9) BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update in this case.

- 10) RKVM (H5viewer) on webui might fail to connect and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task ready 5 minutes after AC on/BMC cold reset. Then user can use RKVM normally. If webui fails to open after RKVM (H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.

S5XH series AST2500(A2) BMC FW Release v3.10.06

- Version 3.10.06
- Release Date: 2021.05.21
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification Version 1.8

Utility

- Yafuflash(version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.10.06_rom.ima with checksum: 19BAB2A2
- 2) s5xhv3.10.06_rom.ima with MD5 checksum:
30b69341327fcb088fb0237304f4fdd9
- 3) s5xhv3.10.06_rom.ima_enc with MD5 checksum:
2bc581b9db436fbeb14baa6ebae5053

Fan Table

Versions

- S5X:
 - o SKU 0: R05 (S5X_3.5_R06_20210122)
 - o SKU 1~2: R05 (S5X_2.5_R06_20210122)
- S5XQ:
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

S5XH/S5XQH:

Bugs Fixed

S5XH:

- 1) [BMC] Fix SMASH Functions.
- 2) [BMC] Set IPv6 static gateway address in BMC WEBUI, the address value is blank after login WEBUI again.
- 3) [BMC] Fix IERR dump function at CPU amount checking.
- 4) [BMC] Fix rkvm fail to connect then webui also fail issue, BMC will stop user use rkvm when rkvm not ready.
- 5) [BMC] Fix BMC Image cannot boot to the flashed image.
- 6) [BMC] Set IPv6 static gateway address in BMC WEBUI, the address value is blank after login WEBUI again.
- 7) [BMC] Fix fan duty will be set to 100% before BMC not ready while OCP card on board.
- 8) [BMC] Fix dashboard display issue on webui.

S5XQH:

- 9) [BMC] Fix full fan speed because wrong code judgement by pcie network card.
- 10) [BMC] Remove pex polling task on other sku from all flash sku.

Known Issues

- 1) [BMC] For S5XH, PSU LED and BP LED will be LID if insert Intel OCP 3.0 Card even is Power Off.
- 2) [BMC] Insert Intel OCP 3.0 Card may cause Redfish and WEB UI cannot get Processors information and DIMM Info.
- 3) [Redfish] Hitachi requirements are not ready. (Virtual Drive Information)

Notes

- 1) For S5X, only support HW FAB4, FAB6 and FAB7.
- 2) The password strength must be set at least 8 letters.
- 3) For S5X, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.

- 4) For S5X and S5XQ, after updating 2.28, please use the BIOS 2A06 or later.
- 5) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 6) For S5X and S5XQ, after updating 3.01, please use the BIOS 3A04 or later.
- 7) If upgrade BMC from 3.02 to 3.07 or after, please follow below method:
- 8) If upgrade BMC from 3.02~ to 3.07 or after,

Please follow below step:

Step1: ipmitool raw 0x32 0x8f 0x01 0x02

Step2: ipmitool mc reset cold

Step2-1: Wait BMC Ready

Step3: ipmitool raw 0x32 0x8f 0x01 0x04

Step4: update 3.07.06 or after via webui or yafuflash If fail, please use socflash for 3.07.06 or after

- 9) BMC update via redfish will fail from the old version(~3.02) to new version(3.03~), please use webui or yafuflash update at this case.
- 10) RKVM (H5viewer) on webui might fail to connect and then close the window within 5 minutes after AC on/BMC cold reset. Please wait for RKVM task ready 5 minutes after AC on/BMC cold reset. Then user can use RKVM normally. If webui fails to open after RKVM (H5viewer) connection fail, please execute "BMC cold reset" and wait for more than 5 minutes. Then user can use RKVM normally.

S5XH series AST2500(A2) BMC FW Release v3.08.06

- Version 3.08.06
- Release Date: 2021.04.09
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification Version 1.8

Utility

- Yafuflash (version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.08.06_rom.ima with checksum: 19B978C8
- 2) s5xhv3.08.06_rom.ima with MD5 checksum:
af7d4b76ddf3452829585025017d9a9b
- 3) s5xhv3.08.06_rom.ima_enc with MD5 checksum:
166fca706d36b2e6d74899ce549a2375

Fan Table

Versions

- S5X:
 - o SKU 0: R05 (S5X_3.5_R05.0_20201110)
 - o SKU 1~2: R05 (S5X_2.5_R05.0_20201110)
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

S5XH:

- 1) Revert the LDAP function from common submodule.
- 2) Fix the SEL parse about the sensor name of "OS".
- 3) Fix system could not power on when updating bios firmware.
- 4) Add SMASH Function Support.

Bugs Fixed

S5XH :

- 1) Fix when ac cycle, the conf would be broken.
- 2) Add the write disable/enable spi when ac cycle.
- 3) Fix WEB UI Sensor layout(The sensor value information is not fully shown)
- 4) Redfish Information missing.(Please use mallonex OCP Card)

Known Issues

- 1) PSU LED and BP LED will be LID if insert Intel OCP 3.0 Card even is Power Off.
- 2) [BMC] Radius function is not ready - Support Windows Server Radius (NPS).
- 3) [Redfish] Hitachi requirements are not ready.
 - a) Server FRUs.
 - b) (2)Virtual Drive Information.
- 4) Insert Intel OCP 3.0 Card may cause Redfish and WEB UI cannot get Processors information and DIMM Info.

Notes

- 1) For S5X, only support HW FAB4, FAB6 and FAB7.
- 2) The password strength must be set at least 8 letters.
- 3) For S5X, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 4) For S5XQ, only support HW FAB6.
- 5) If upgrade BMC from 2.30 or before version to 3.00, please use the socflash to upgrade BMC.
- 6) For S5XH and S5XQH, after updating 3.02, please use the BIOS 3A04 or later.
- 7) If upgrade BMC from 3.02.06 to 3.08.06, please follow below method:

Method 1: update 3.08.06 via webui or yafuflash twice continuously.

Method 2: follow below step:

Step1: ipmitool raw 0x32 0x8f 0x01 0x02

Step2: ipmitool mc reset cold

Step3: ipmitool raw 0x32 0x8f 0x01 0x04

Step3: update 3.08.06 via webui or yafuflash

If both fail, please use socflash for 3.08.06

- 8) BMC update via redfish will fail from the old version (~3.02) to new version (3.03~), please use webui or yafuflash update in this case.

S5XH series AST2500(A2) BMC FW Release v3.07.06

- Version 3.07.06
- Release Date: 2021.03.19
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.05
- DMTF Redfish Specification Version 1.8

Utility

- Yafuflash(version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.07.06_rom.ima with checksum: 1B6FD0D4
- 2) s5xhv3.07.06_rom.ima with MD5 checksum:
33b8d5a4a104720260ac1e5df3292580
- 3) s5xhv3.07.06_rom.ima_enc with MD5 checksum:
61054c893811ac17a37114a218e089b8

Fan Table

Versions

- S5X:
 - o SKU 0: R05 (S5X_3.5_R05.0_20201110)
 - o SKU 1~2: R05 (S5X_2.5_R05.0_20201110)
 - o SKU 3~8: R01 (S5XQ_QCT_2p5_FSC_Table_R01_20201221, S5XQ_QCT_3p5_FSC_Table_R01_20201221)

Change/Add

- 1) [IPMI] Change to a synchronize for ipmb request
- 2) [IPMI] Fix the ME failed after DC cycle

Bugs Fixed

- 1) When using WebUI to update the BIOS firmware, the progress bar will go back to the middle after the Upgrade" is completed.

- 2) Add there should no AC lost event after DC off for 7 seconds flag definition.
- 3) Fix the HDD device present bounce bug.
- 4) Fix Pcie temp no reading at multi-card status.
- 5) The NVMe status does not need to change the 0xe2 channel.
- 6) Fix the nvme temperature and hdd status sensor sometimes show no reading.

Known Issues

- 1) PSU LED and BP LED will be LID if insert OCP 3.0 Card even is Power Off.
- 2) [BMC] Radius function is not ready - Support Windows Server Radius (NPS).
- 3) [Redfish] Hitachi requirements are not ready.
 - a) Server FRUs.
 - b) Virtual Drive Information.
- 4) Insert OCP 3.0 Card may cause Redfish and WEB UI cannot get Processors information and DIMM Info.

Notes

- 1) For S5XH, only support HW FAB4, FAB6 and FAB7.
- 2) The password strength must be set at least 8 letters.
- 3) For S5XH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 4) For S5XQ, only support HW FAB6.
- 5) For S5XH and S5XQH, after updating 2.30, please use the BIOS 2A06 or later.
- 6) For S5XH, if upgrade BMC from before version to 3.02, please use socflash tool to upgrade to v3.02.
- 7) If upgrade BMC from 3.02~ to 3.07,

Please follow the steps below:

Step1: ipmitool raw 0x32 0x8f 0x01 0x02

Step2: ipmitool mc reset cold

Step3: ipmitool raw 0x32 0x8f 0x01 0x04

Step3: update 3.07.06 via webui or yafuflash

If fail, please use socflash for 3.07.06

- 8) BMC update via redfish will fail from the old version (~3.02) to new version (3.03~), please use webui or yafuflash update in this case.
- 9) For S5XH, after updating 3.01, please use the BIOS 3A04 or later.

S5XH series AST2500(A2) BMC FW Release v3.02.06

- Version 3.02.06
- Release Date: 2021.02.04
- AMI Subversion Revision: AMI SPX RR12.3
- Code Base: 3.00
- DMTF Redfish Specification Version 1.8

Utility

- Yafuflash(version 6.85.00)

Prerequisites

- Install the ipmitool.

Firmware Images

- 1) s5xhv3.02.06_rom.ima with checksum: 139BEEFA
- 2) s5xhv3.02.06_rom.ima with MD5 checksum:
afddaae384c74979843d9696b02a23c5
- 3) s5xhv3.02.06_rom.ima_enc with MD5 checksum:
45685e864eb9bfe90088d5bdf0d6567e

Fan Table

Versions:

- S5XH:
 - o SKU 0: R5 (S5X_2.5_R05.0_20201110, S5X_3.5_R05.0_20201110)
 - o SKU 1~2: R5 (S5X_2.5_R05.0_20201110)
 - o SKU 3~8: R0 (S5XQ_FSC Table_R00_QCT_20200825_thermal)

Change/Add

- 1) [RR12.3 AMI pure code update] Kernel update to 5.4 from 5.2
- 2) Add Web BIOS Firmware update with preserve function.
- 3) Redfish properties changed.

[/redfish/v1/UpdateService/FirmwareInventory/CPLD]

Add Version

[/redfish/v1/UpdateService/FirmwareInventory/BIOS]

Add Version

[/redfish/v1/Chassis/Self/Power]

Remove PowerControl-> PowerLimit

[/redfish/v1/UpdateService]

Add Oem->BIOS->BIOSPreserveNVRAM

Bugs Fixed

- 1) [WEB]WEB UI cannot update BMC.
- 2) [REDFISH]In Redfish GET /Managers/Self Firmware version will show 2.30.xxxxx not 2.30.06
- 1) BMC watchdog reset after high inlet temperature to turn off system.
- 2) BMC path Settings > System Firewall will change to Settings > Firewall after entering any page under it.
- 3) [Web][FW upgrade] Fix CPLD firmware update.
- 4) [WEB][Sensor Page] BMC sensor page will appear a lot of ""Chassis"" sensor at ""Discrete Sensor States"" section(Random 4/10).
- 5) [WEB][Dashboard] The BMC version on WebUI menu bar is not matched with firmware package release note and IPMI mc info command.
- 6) [WEB][Sensor Detail Page] Sensor detail page show multi record at sensor time line.
- 7) [Bug] eTrack 349843 SSL certificate did not preserve after restore factory default with preserve all configuration fix again.
- 8) Open Settings > IPMI Interfaces with Operator user privilege, WebUI will pop up error message and show incorrect IPMI Interfaces status.

Known Issues

- 1) [BMC] Cannot read CPU/PCH temperature sometimes. The fan speed will be Full duty when the CPU temperature disappears.
- 2) [BMC] Radius function is not ready - Support Windows Server Radius (NPS).
- 3) [Redfish] Hitachi requirements are not ready.
 - a) Server FRUs.

c) Virtual Drive Information.

Notes

- 1) For S5XH, only support HW FAB4, FAB6 and FAB7.
- 2) For S5XH, before upgrading to v2.11, please use the MB-SKU-Tool to update the MB sku.
- 3) For S5XH, updating from 2.18 to 2.21, please use the socflash.
- 4) The password strength must be set at least 8 letters.
- 5) For S5XH, FAB4 only support the 2KB size FP and FAB6 only support 16KB size FP.
- 6) For S5XH, after updating 2.28, please use the BIOS 2A06 or later.
- 7) If upgrade BMC from 2.30 or before version to 3.00 or after, please use the socflash to upgrade BMC.
- 8) For S5XH, after updating 3.01, please use the BIOS 3A04 or later.

S5XH series AST2500(A2) BMC FW Release v2.30.06

- Version 2.30.06
- Release Date: 2020.12.31
- Code Base: 2.11
- DMTF Redfish Specification Version 1.8
- AMI Subversion Revision: AMI SPX RR12.3

Utility

- Yafuflash (version 6.78.0)

Firmware Images

- 1) s5xhv2.30.06_rom.ima with checksum: A4A259D2
- 2) s5xhv2.30.06_rom.ima with MD5 checksum:
e8ef1bc7b025d3b1329f30d39e1f3f82
- 3) s5xhv2.30.06_rom.ima_enc with MD5 checksum:
f2ea3b85c2f98552d3944c49062c1707

Fan Table

Versions:

- S5X:
 - o SKU 0: R5 (S5X_2.5_R05.0_20201110, S5X_3.5_R05.0_20201110)
 - o SKU 1~2: R5 (S5X_2.5_R05.0_20201110)
 - o SKU 3~8: R0 (S5XQ_FSC Table_R0_QCT_20200825_thermal)

Change/Add

N/A

Bugs Fixed

- 1) Severity or description of MCERR log within BMC SEL is "Unspecified" after trigger UPI Failover error by itp,
- 2) The FRU0 will become garbled text and cause FRU1/10 disappear after system do reboot. (ipmitool fru print)

- 3) MB FRU has garbage string. (Both of FP and NIC DRU are normal.)
- 4) The MB-FRU will disappear after system reboot. (DVT system, HW Rev: D2B Rework A / FP board: HW Rev: A1B)

Known Issues

- 1) The Fan_SYS_Status of SEL log on webUI will parse failed.
- 2) WEB UI cannot update BMC. Please use Yafuflash to update BMC Firmware.
- 3) In Redfish GET /Managers/Self Firmware version will show 2.30.xxxxx not 2.30.06
- 4) [Redfish] Hitachi requirements are not ready.
 - a) Server FRUs.
- 5) [BMC] Radius function is not ready - Support Windows Server Radius (NPS).

Notes

- 1) Only support HW FAB6 and FAB4.
- 2) The password strength must be set at least 8 letters. Add additional headings and content, as necessary. You can add up to three additional heading levels. The tables below are examples that can be copy/pasted as necessary to create your own notes and tables.

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