IPMI Firmware Release Notes Form

Product Name	**H12SSFF-AN6**
Release Version	**01.02.08**
Build Date	**12/03/2021**
Previous Version	**01.01.12**
Update Category	**Recommended**
Dependencies	**BIOS 2.3 (BIOS_H12SSFF-1C19_20211021_2.3_STDsp)**
Important Notes	BMC_H12AST2600-ROT-9201MS_20211203_01.02.08_STDsp.bin - BMC image BMC_H12AST2600-ROT-9201MS_20211203_01.02.08_STDsp.zip - BMC image and flash utility package
Enhancements	**1. [ENGINEERING] - network AOC FW version length cut** **2. [ENGINEERING] - Support EUI-48 Locally Administered MAC Address for Redfish host interface** **[ENGINEERING] - Host interface can get IP in client OS after reboot OS or remove/insert rndis driver.** **3. ENGINEERING] - Add new raw command 0x30 0x68 0x39 to add/delete user account.** **[ENGINEERING] - SMCIPMItool automation test failure** **4. [ENGINEERING] - USB LAN between BMC and BIOS should work with all BIOS with USB LAN local MAC or USB LAN global MAC.** **[ENGINEERING] - Add new raw command 30 68 E1 to select host MAC for redfish host interface** **5. [ENGINEERING] - Add MultiNode API** **6. [ENGINEERING] - new JAVA certificate** **7. [ENGINEER] - Support BIOS runtime update**
New features	N/A
Fixes	**1. [130891] Fix - Updating BMC via /redfish/v1/UpdateService/Actions/UpdateService.SimpleUpdate now preserves configurations** **2. [130891] Fix - Updating BIOS via /redfish/v1/UpdateService/Actions/UpdateService.SimpleUpdate now prints to MEL**

3. [129980] - Anonymous account or null value can be created on HW IPMI
4. [130652] - User with User-level permissions can attempt to change UID setting
5. [130891] Fix - Updating BIOS via /redfish/v1/UpdateService/Actions/UpdateService.SimpleUpdate now preserves SMBIOS
6. [ENGINEERING] - network AOC no link status
7. [ENGINEERING] - web slow on CPU page
8. [ENGINEERING] - Allow the user privilege can be configured even if user id/pwd are empty
9. [ENGINEERING] - typo for RollbackID
10. [ENGINEERING] - somehow the firmware uploading is hanging in few cases.
11. [131790] - Missing NVMe graphics
12. [131731]- After issue the DC28 of cmd then check BMC web found Description is incorrect
13. [ENGINEERING] - power consumption always 2W after stress cburn on/off
14. [ENGINEERING] - Remove MouseMode, IKVM and Snooping license check
15. [131139] - Fail to unlock the ADMIN account
16. [ENGINEERING] - Fix OEMGetSetSmartCool 30 70 73 cmd response
17. [131933] - [3108-SAS] Blink LED feature not working in logical view page and no option to delete Raid volume as well.
18. [131783] - multi function should grey out when login with user priv
19. [ENGINEERING] - only X12 Whitley supports restore boot option
20. [ENGINEERING] - support Nvidia A16 and A2
21. [ENGINEERING] - support Intel GPU Artic Sound-P
22. [ENGINEERING] - AOC-A25G-i2SM temperature
23. [131042] - System lockdown issue on the web
24. [131075] - Web element isn't disabled when login with user privilege
25. [130851] - Failed to run IPMIECO Automation test (TC401/402)
26. [Fix] Fix AOC-S25G-m2S no link status.
27. [ENGINEERING] - Directory Service support group only
28. [132245] - [S3108-SAS] BMC fail to delete the Raid configuration
29. [131966] - IPMICFG execute IPv6 command "-addrptl 2" failed
30. [130770,130772,130774] STD -- 19146-- Latest Version – [Security] Buffer overflow in ipmi_lan ASF protocol
[130776~130778]STD -- 19146 -- Latest Version – [Security] DoS BMC with incorrect IPMI operate packet
31. [ENGINEERING] - default restore boot option if update BIOS not set PreserveBOOTCONF
32. [ENGINEERING] - the behavior of Reset pin is inverted.

33. [132844] - Storage card controller 'create raid' button still enable when system lockdown disable.
34. [ENGINEERING] - Redfish response inconsistence
35. [132859] - The BMC version is not the same between System and Multi nodes
36. [132860] - NTP primary server check for correct IP.
37. [134086] -[LCS-AOC-S3908L-H8IR-16DD] Populate S3908L-H8IR-16DD without BBU but the BBU status is error.
38. [132987] - IPMIECO TC 267 Mount ISO over IPv6 fail
39. [134150] - User name and password requirement are inconsistent with tips/Help info
[134149] - User is able to enter 65 characters as Authentication Key and Encryption key when setting Alerts with SNMPv3 protocol
[ENIGNEERING] - Task page update: remove ID
40. [IPMI ECO 01.02.04] Automation tests Failure.
41. [134075] - [REDFISH] CPU SEL event triggers SEL itself to return 500
42. [133934] - Upper right corner language no change in IPMI Web GUI
43. [133069] Fix - PFR "Recover" button now greys out when DCMS license is inactivated.
44. [132720] - Web Notification Alert issue -smtp alert
[134148] - Unable to configure SMTP when setting Alerts
45. [134058] - The sensor "DIMMA~D Temp" and "DIMME~H Temp" reading value is incorrect(always display "N/A" / under OS)
46. [132498] - Password requirement doesn't match
47. [ENGINEERING] - CDump.tgz download through SMCIPMITool cannot be extracted
48. [133477] - Shouldn't allow user to put space when setting DNS server
49 [133286] - Automation tests Failure.
50. [133282] - Set Initial value to object of subject.
51. [133321] - Modify title for the field
52. [133338] - Modify title for fields
53. [133335] - Set default 'checked' to Auth and Private protocol
54. [133334] - String Handling
55. [133381] - Upload wrong type of "IPMI Configuration" file should not allow to reload
[133380] - Couldn't remove selected file due to "X" is out of frame
56. [133394] - Update BIOS on Next Boot can now be triggered by "Power Reset"
57. [131042] - Systemlockdown issue on the web
58. [ENGINEERING] - Backward compatible to support AOC-STG-b2T with PLDM or original thermal
59. [127638] - Enable autoconfig when IPv6 is enabled with stateless mode to fix TC267

| | 60. [132970] - Domain Name Save Issue DDNS Page
61. [132720] - Web Notification Alert
62. [133273] - User is able to delete itself while logged in
63. [133243] - ikvm port becomes 0 after reloading configuration file
64. [131042] - Systemlockdown issue on the web
[133277] - Close" button is out of the "Preference" page on IKVM(HTML5).
65. [133078] - Data Mismatch when Comparing Excel File with Web Event Log
66. [Milan 7373X] The system occurred CPU overheat and automatically throttled during CPU HPL performance test |

01.01.12 (09/13/2021)

1. Set prompt to reboot system to show after updating NICs and Broadcom firmware.
2. Added querying stored rollback ID.
3. Made Rollback ID alert a tooltip.
4. Fixed issues with number of drives displaying on Overview and Physical View tabs on storage monitoring.
5. Fixed mismatch of power consumption curves for "last day" and "last week" and highest peak value in IPMI WebGUI.
6. Fixed ability to configure some functions when using "User" Privilege, and missing translation to Japanese and simplified Chinese for component information.
7. Fixed missing IPMI SEL log for HDD smart error.
8. Fixed problem of BiosRotManage UpdateGolden throwing "Sending packets timeout".
9. Fixed ability to configure some functions when using "Operator" Privilege.
10. Fixed failure of SATC Redfish automation test.
11. Corrected number of SATA drives on Broadcom rectangle.
12. Fixed abnormality of iKVM after changing language from English to ????.
13. Fixed issue with cross-site scripting on Users feature when using specific payload.
14. Corrected web storage controller tab.
15. Removed DCMS license requirement for updating BMC/BIOS Golden and getting Rollback ID.
16. Fixed functionality of firmware update checkboxes.
17. Fixed mismatch of "Generate Evidence can't update BIOS firmware" message and Spec definition.
18. Fixed problem of firmware inventory page loading unnecessary buttons.
19. Fixed missing switch and generate button on System Crash Dump page with Admin and Operator privilege.
20. Fixed failure of reboot after power cycle for 24-48 hours.

01.01.06 (07/24/2021)

1. Corrected data shown on Storage Monitoring page.
2. Fixed problem of the battery status showing as "Not Install" when the battery module has been plugged in.
3. Fixed issue of BMC Web hanging when getting network AOC information.
4. Fixed problem of IPMI showing N/A on AOC Temp reading.
5. Fixed inability to detect sensor reading "AOC_NICI_Temp" when AOC-S25GC-i4S card is attached.
6. Fixed problem of BMC generating AIOM sensor when there is no AIOM card.
7. Fixed inconsistency of save success messages for WebUI.
8. Fixed ability to configure some functions when using "Operator" Privilege.
9. Fixed problem of "Configured-driver is rebuilding" showing in physical view after RAID status in logical view returns to "Optimal" and found 3 (expecting 1) "HDD is rebuilding" event logs on web.
10. Fixed problem of IPMI event log showing as null when event log adds to 4096

11. Fixed failure of page to respond when VM has a bad file name.
12. Fixed 13 failures of IPMIECO Automation test.
13. Fixed inability to connect to IPMI Web using http://IP:81 when web port 81 is ON.
14. Fixed problem of the Battery status displaying "Prohibit" icon when RAID card does not support battery module and battery status error in Storage Monitoring.
15. Fixed problem of PFR action button behavior changing from show/hide to disable/enable.
16. Fixed missing translation to Japanese and simplified Chinese for component information and DDNS/IPMI/License Activation "Select Files" button, and "Multi Node" related information in Help content.
17. Fixed problem of the NTP Enable switch position moving to On and the "On/Off" string disappearing after disabling NTP.
18. Fixed problem of the web page logging out when changing "System Lockdown" (either On to Off or Off to On).
19. Fixed problem of file names affecting verification.
20. Fixed missing health when there is no linkup with TAS.
21. Fixed problems of NetworkDeviceFunctions collection count showing as 0 and NetworkDeviceFunctions showing MAC as garbled.
22. Fixed failure of test via SMSTC.
23. Fixed problem of PSU page extended info automatically minimizing.
24. Fixed failure of COM2 console redirection to connect.
25. Fixed abnormality of CPU overheat.
26. Fixed memory present pin on H12 platform.
27. Fixed problem of model value showing as empty with AMD CPU.
28. Fixed presence of sensor for AIOM 1G (AOC-AG-i2M).
29. Fixed failure of IPMI WebUI to respond and ability to receive logs when the log is full (512 logs) after disabling the FIFO.
30. Fixed problem of Oops error being returned when turning on "Virtual Media Port" first.
31. Fixed inability of 1.01.03 to enable Dynamic DNS in setting process.
32. Fixed problem of error being returned when using full-width characters when adding or modifying user name and mismatched hit message being returned when inputting full-width characters for user password.
33. Fixed problem of HDD rebuilding showing too many logs on web.
34. Corrected DNS Server2 IP default value, fixed inability to configure DNS Server IP/DNS Server2 IP on Network page, and enhanced IPv4 static netmask input validation.
35. Fixed problem of Health Event Log page hanging in reading process when creating over 4096 events.
36. Fixed error with event log when rebuilding HDD slot2.
37. Fixed problem of PSU status displaying wrong error if system is powered off and PSU has a power cord.
38. Fixed failure of selected protocol (SHA96/AES128) to save at SNMPv3 (Alert).
39. Fixed mismatch of "Message" field on "Alerts" page when protocol is "Redfish".
40. Fixed inability to disable SOL.
41. Fixed inability to find BBU status on IPMI storage monitoring overview page.
42. Fixed failure of web session timeout.
43. Fixed PWS sensor reading.

44. Fixed missing host interface after BMC factory default.
45. Fixed ability to edit IP Access Control, DDNS, Syslog, Time Zone, and NTP Server after locking down the system, to configure some functions in System Lockdown Mode, and to configure some functions when using "Operator" and "User" Privilege.
46. Fixed failure to enable SNMPv3 when special characters include username.
47. Corrected small value shown for output current on WebUI PSU page if PSU output current is over 65A.
48. Fixed failure of the NTP time to sync after updating the BIOS.
49. Fixed problem of IPMITool Factory Default Command raw 30 40 resetting the network settings.
50. Corrected information displayed when "Virtual Media Port" is turned off and fixed problem of "TSIG .key File" and "TSIG .private File" hit message being lost, overlapping, and shifting on DDNS page.
51. Added BMC unique firmware name.
52. Fixed error with MIB sensor Table check.
53. Set system slot at "Location" in Network AOC tab to be used.
54. Fixed issue with RADIUS server address input.
55. Fixed failure of SATC Redfish automation test.
56. Fixed inability of the system COM1 to send any data out.
57. Fixed IPMI config and LIC activation, problem of Tips and hit message overlapping on "Add new user" window, problem of "Auth key" and "Private key" hit messages overlapping and showing as incomplete on SNMPv3 page, problem of "Port" and "Time to live" hit messages overlapping on SSDP page, problem of "Select Files..." hit message overlapping with button on IPMI Configuration page, and problem of "Port" and "Time to live" tips and hit message overlapping on SSDP page.
58. Fixed Redfish license check.
59. Fixed mismatch of chassis information on the IPMI WebGUI and FRU CT value.
60. Fixed missing sensor reading.
61. Synchronized Alert IP between OEM command and Redfish/Web.
62. Fixed inability to disable IPMI Web SNMPv3.
63. Unified fan threshold as 280.000 | 420.000 | 560.000 | 35420.000 | 35560.000 | 35700.000.
64. Fixed typo in Redfish driver property.
65. Fixed failure of memory serial number to show completely, problem of "Export to excel" string display appearing out of frame on HEL/MEL page (Japanese), failure to show error message when typing in IPv4 format address on IPv6 DNS server, issues with language dictionary spelling, and different format under PSU page.
66. Fixed mismatch of Redfish property.
67. Fixed inability of SMCIPMITool to show IPv6 address after setting Network LAN mode to dual and failure of test case 267 for SUM commands "MountIsoImage" and "UnmountIsoImage" with IPv6.
68. Added support for AST2600A3.
69. Fixed failure of TC#315.
70. Fixed mismatch of time format.
71. Fixed ability of user to launch only one HTML5 window after FD.
72. Fixed inability to mark the latest event as acknowledged.

73. Fixed ability of Virtual CD-ROM to import invalid symbol for input option.

74. Fixed error with power consumption SC mode and mismatch of account info display format on two platforms.

75. Set yellow RBID notification to show on BMC or BIOS selected components.

76. Fixed missing Network add-on card sensor and info and add-on card NIC sensor reading.

77. Fixed test cases 407 and 408.

78. Fixed 10 failures of SATC test and 23 failures of Redfish Automation API test.

79. Fixed abnormality of behavior on sensor page.

80. Corrected SSDP port number 1-65535 and disabled VM port on the first use.

81. Fixed problem of the NIC being assigned to shared NIC when both dedicated and shared NICs are connected.

82. Set completion message to appear for 15 seconds.

83. Corrected power status displayed after BIOS update.

84. Fixed mismatch of SSDP port number range from note box and alert message.

85. Fixed problem of AOC temperature name containing unknown characters in SMCIPMITool and missing temperature sensor reading for AOC-S100GC-i2C.

86. Fixed error message for ability of user to set username with "@" and ability of user to set user name with special characters.

87. Fixed problem of task status showing as EXCEPTION after BIOS update finishes.

88. Corrected WebUI behavior after enabling system lockdown.

89. Replaced BMC power into DCMI power reading for template workaround.

90. Added some delay for SUM to poll BIOS for update progress.

91. Removed extra characters in warning error message for user.

92. Fixed problem of value error occurring in IPMI Web - System - Component Info - CPU Speed.

93. Corrected event log created by IPMI after heating memory until OS shutdown.

94. Added support for the combination of 'erase' and 'update' commands.

95. Set first step to "Choose component and options" and second step to "Upload Firmware File."

96. Fixed problem of firmware verification staying on Step 2 if it fails on Firmware Management page.

97. Fixed problem of Web service hanging when logging into WebUI with Chrome browser while SEL is full.

98. Fixed failure of host to power up after BIOS update by tool.

99. Fixed failure to save and mount floppy image file.

100. Fixed problem of Virtual keyboard iKVM Java being cut short.

101. Fixed failure of SUM automation test.

102. Fixed malfunction of BIOS update on H12.

103. Fixed failure of automated test and license permission.

104. Fixed failure of CPU and memory page in BMC component info page check after offline flash of BMC, BIOS, or CPLD and then powering on the first time.

105. Fixed inability to find the TEE OS version in the IPMI maintenance event log.

106. Fixed inability to apply TC103 radius IP.

107. Fixed failure of Dashboard storage button to change to red info with critical array event.

108. Allowed 20 seconds before rebooting BMC for SUM to process some items before updating BIOS Golden image.

109. Fixed problem of RAID card logical drives displaying error in IPMI Storage monitoring overview.

110. Fixed missing BoardID property in redfish/v1/Chassis/1.

111. Added one more byte in raw 0x30 0x68 0xE0 0x00.

112. Set BIOS update through SUM with BMC reboot to preserve BIOS settings.

113. Fixed inability to add the SNMP alerts by SMCIPMITool.

114. Fixed Storage Redfish API count.

115. Added SensorNumber property in /Chassis/1/Thermal.

116. Fixed problem of "Clean user password failed" always showing when the operator deletes the user though SMCIPMITool.

117. Updated BMC/BIOS Golden image when updating the OEMFID into RBID.

118. Set BMC to reboot only when writing BIOS rollback ID into CPLD is required.

119. Added a notification when user selects "Allow Rollback ID To Be Updated".

120. Added support for identifying AMD CPU generation.

121. Added support for SFT-SDDC-SINGLE license activation.

00.01.26 (2021/02/03)

1. [ENGINEERING] revert TEE OS to v9999.01.05. Original TEE OS make some issues like IPv6

2. [121412] The IPv6 settings are some errors and different with HPE.

3. [122163] [Milan] IPMI raw 30 80 1 2 (to Get upper lower power limits for SPM SW) w fail output CC (Invalid data field in Request) on the H12SSFF-AN6.

4. [122104] (BIOS_H12SSFF-1C19_202101132006_TESsp.bin,Milan CPU.SMSTC) Failed to check TC#309 due to SUR always keep system in power off state after ran update BIOS Golden command as "./sum -I Redfish_HI -u ADMIN -p ADMIN -c BiosRotManage --action 2 --reboot". [ENGINEERING] BMC can't get OOB file on first AC On.

5. [120727] [IPMIECO 00.01.18] SMSTC automation test failed, TC 401/402/407/408/409 web fix.

6. Sleep for 20 seconds regardless if using SUM through in-band/OOB for MB CPLD Update.

7. [119992] Cannot build HDD RAID function in BMC Web GUI.

8. [121979] Function fail: H12SSFF when first time boot up will hang up.

9. [ENGINEERING] Fix provision tool get wrong golden BMC revision.

10. Provide IPMI command of erasing BMC/BIOS backup/golden for production team

00.01.23 (2021/01/08)

1. Added cache value for VRMSoc temperature sensor.

2. Modified voltage threshold UNC/LNC to UC/LC value.

3. Set a "failed" message to display in MEL when BMC/BIOS firmware update fails.

4 .Fixed failure of CPLD JTAG to lock after finishing CPLD provision.

5. Fixed failure of UEFI SUM 1.1.0 to update CPLD, throwing out code 149.

6. Fixed missing bios_oem_fid file in restapi File.Export.

00.01.22 (2020/12/30)

1. Fixed problem of BIOS halting at 0E during AC cycle.

2. Fixed failure of SUM automation test.

3. Prevented BMC reset due to NAND parsing.

4. Fixed ability to add username with fewer than 4 characters.

5. Fixed failure of SMSTC automation test.

6. Changed display of BMC golden revision from 0.01.22 to 00.01.22.

7. Added support for crash dump.

00.01.20 (*2020/12/15***)**

Initial Release