

IPMI Firmware Release Notes Form

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Product Name	H13SSF
Release Version	01.03.39
Build Date	12/08/2024
Previous Version	01.03.25
Update Category	Recommended
Dependencies	BIOS: v3.0a
Important Notes	IPMI image: BMC_H13AST2600-ROT20-E401MS_20241208_01.03.39_STDsp.bin IPMI Update package: BMC_H13AST2600-ROT20-E401MS_20241208_01.03.39_STDsp.zip
Enhancements	<ol style="list-style-type: none">1. Supported BPN 0x6008.2. Replaced the model of redfish/v1/Managers/1.3. Added LDAP RFC2307bis support.4. Updated open-source.
New Features	<ol style="list-style-type: none">1. Supported the Redfish standard API /redfish/v1/LicenseService.
Fixes	<ol style="list-style-type: none">1. Fixed the instability of HTML5 and iKVM in BMC versions 01.03.24 - 01.03.25.2. Fixed the issue that IPv6 AutoConfiguration was disabled successfully but continued to follow after changing the LAN interface.3. Fixed the issue that "Invalid Sender's Address" showed different error messages in some projects.4. Fixed the issue that the host Interface was OFF by default.5. Fixed the issue that only one Access Mode of SNMPv2 was set, yet an unrelated MEL log was still generated when deleting.6. Fixed the inconsistency of Redfish and SMTP test events between SMC products.7. Fixed the issue of supporting up to 4x SAS controllers.8. Fixed the issue where /redfish/v1/Chassis/1/Assembly returned a 404 error.9. Modified LicenseService to support additional platforms.10. Fixed the issue that the iKVM power cycle action wouldn't generate MEL.11. Fixed the issue of MEL spec version mismatch in the Registries/Event API.12. Fixed the login failure issue for Case102011 on 7601MS/2401MS.13. Fixed the issue that the write FRU capability should be disabled after a factory reset.14. Fixed the issue where the DST offset for Lord Howe was 30 minutes.15. Fixed some IPMITool issues.

	<p>16. Fixed the issue that Case102005 for users failed on 7601MS.</p> <p>17. Fixed the issue with the vulnerable JavaScript library query-ui on 7601MS.</p> <p>18. Fixed issues with File.Import and File.Export on 3501MS/7601MS.</p>
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Release Notes from Previous Release(s)

1.01.07(7/10/2023) First release.

1.02.04 (12/01/2023)

New Features:

- 1.Added support for KCS disable function.
- 2.Added support for LDAP StartTLS.
- 3.Added SPS version and Microcode version to firmware inventory.
- 4.Switched "validate Access with OOB and No License" to newer UI behavior.
- 5.Enabled USB Lan 2 options feature (WEB).
- 6.Added support for OpenJDK.
- 7.Added Property "Product" for /redfish/v1.

Fixes:

- 1.Fixed an issue where the default value of the DNS Server Address did not match the definition of each field.
- 2.Fix an issue where only partial memory modules were listed in the IPMI Web GUI memory info with HBM CPU.
- 3.Fixed an issue that valid TSIG files could not be uploaded.
- 4.Fixed an issue that syslog packet does not follow RFC3164.
- 5.Fixed some failure issues in redfish automated test items.
- 6.[MEL] Fixed incorrect MEL when disabling the Host Interface.
- 7.Fixed Virtual media display "This function requires SFT-OOB-LIC license!" tip when both DCMS and OOB keys have been activated.
- 8.Fixed an issue that the IP Access Control page can be edited/deleted based on user privileges.
- 9.Fixed an issue that the IPMI Web GUI main menu ordered incorrectly in Safari.
10. Fixed an issue that SPPT detects DIMMA~F &DIMMG~L Temperature -16°C.
- 11.Fixed an issue that the BMC GUI "System Health" status ' did not change to a critical condition when a system fan failed.
- 12.Fixed DMTF validator failure.
- 13.Fixed an issue that VLAN Tagging tests failed.
- 14.[OSS]Fixed abnormal Login UI display after performing Factory Default
- 15.[Virtual Media]Fixed an issue that the Checkbox and Connnect icon styles do not follow the specification.
- 16.Fixed an issue where error messages would not appear when uploading XML files during BIOS update.
- 17.[MEL]Fixed adding dhcp dns needs to generate MEL.
- 18.Fixed an issue that prevented downloading of BIOS/BMC Evidence without a license.
- 19.[Virtual Media]VM is able to add duplicates, three items with the same Share Host, and Path to Image.
20. Fixed an issue that LLDP pages were not translated into the selected language.
- 21.[Virtual media]Fixed VM showing "This function requires SFT-OOB-LIC license!" tip when both DCMS and OOB keys are enabled.
- 22.Fixed being unable to disable Dynamic DNS if TSIG is enabled, TSIG must be disabled first.
- 23.Fixed an issue that IPv6 link local addresses could not be displayed
- 24.Fixed BMC not being able to detect temperature reading AOC-E810-XXVDA4TGG1.
- 25.Fixed an issue with no U.2 NVMe temperature when installing INTEL SSDPE2MD800G4.
- 26.Fixed an issue that the connect button did not work on the Virtual Media page.
- 27.Fixed some failed items of IPMI ECO redfish automation test.
- 28.[GUI]Fixed the problem of misalignment of the Dashboard page layout.

29.[GUI]Fixed an issue that the link speed description in the Help info was inconsistent with the Spec. 30.Fixed the license Activate page not changing wordings from "New Private Key" to "New Product Key".

31.[SMCIPMITOOL]Fixed an issue with inconsistent return code behavior when executing "ipmi lan ipv6 clear".

32.[GUI]Fixed the problem that the Checkbox style of the ADD USER page does not follow the specification.

33.Fixed RMCP connection loss issue during SPM testing.

34.Fixed an issue of overlapping warning messages when adding a new user.

35.Fixed an issue that IPMI showed the system's power consumption was way too low.

36.Fixed an issue that the IPMI manufacturer name as "unknown".

37.[Virtual Media]Fixed the Unmount Device modal buttons showing Close and Save instead of Yes and No even though it asks "Are you sure you want to UNMOUNT the Device?"

38.Fixed Error message displayed when muounting image

39.Fixed an issue that virtual media could not be connected when only one or two virtual machines were set up to connect.

40.[MEL]Fixed an issue of incorrect MEL when modifying IPV4 DNS Server2 IP.

41.Fixed an issue that the Virtual Media/Network/User(SNMP) in the Help page is inconsistent with the Actual WEB page.

42.Fixed abnormal behavior after clicking the Save button multiple times to delete a task.

43. Fixed an issue that "User is locked" would not pop up due to [Security] considerations.

44.Fixed missing physical View HDD temp issue in BMC.

45.[MEL]Fixed an issue when deleting DNS Server and Server2 IP and saving doesn't generate MEL. 46.Fixed an issue that valid IPv4 address for static Ips could not be saved.

47.Fixed an issue that unconfigured SSDP-related MEL would be triggered when setup SSDP.

48.Fixed some failures in BMC Web UI automated testing.

49.[MEL]Fixed an issue when enabling Auto Daylight Saving failed but MEL shows enabling successfully.

50.Fixed an issue that the title of the Virtual Media page doesn't follow the UI design.

51.Fix an issue that the help page did not list SSDP & LLDP related information.

52.Fixed an issue that warning tips would continue to be displayed after unselecting the Account Type 'SNMP' when adding users.

53.Fixed an issue when the PSU sensor was missing when executing an AC cycle.

54.Fixed Systems LogService entry empty data.

55.Added ACCEPT/DROP rules with duplicate IP Address/Mask being blocked.

56.[GUI]Fixed an issue that the password could not be reversed with the User name and the error response "Oops! Something went wrong." was inconsistentwith the situation.

57.Fixed an issue that the trash can should appear gray when logging in with User privilege.

58.[MEL]Added RemoteGroup/User Rules MEL did not follow the same MEL SPEC version definition. 59.[MEL]Duplicated MEL does not match the option name when setting Dedicated Link Speed & 1 G Full Duplex MEL.

60.[MEL]Fixed an issue that SNMPv3(Notifications) Authentication Protocol/Encryption Protocol naming is inconsistent with MEL.

61.Fixed an issue that SSDP IPv6 Scope settings could not be saved. (either logged by MEL)

62.Fixed wrong license required behavior/message.

63.Fixed wrong Redfish privilege and licensecheck for Redfish_1_11_API_full_list_20230918 update.

64.Set 0.0.0.0 to DNS Server IP would be replaced by a valid DNS Server2 IP after the setting is saved.

65.Fixed incorrect GPU Index from IPMI.

66.Fixed HDD Temp/HDD Temp sensor will show N/A when executing cburn-87 DC on-off test.

67.Changed the upper critical temperature to 77°C for the E3.S SSD drive sensor.

68.Changed the upper critical temperature to 80°C for Samsung NVMe drives.

69.The setting is in the correct format, but the NTP server IP is invalid. The error message shows "Oops" instead of [MEL-0255].

70.[GUI] Fixed a virtual Media/Network/User(SNMP) inconsistency between the Help page and Actual WEB page.

71.Duplicated MEL does not match the option name when setting Dedicated Link Speed & 1 G Full Duplex MEL.

72.Fixed the wrong "RAID level" information on the BMC Web GUI when creating RAID level 10/50/60(Span Depth=3).

73.Fixed [MEL-0104] non-listing issue that all configurations were not preserved after successfully updating the BMC.

74.Fixed the failure of SPPT validation.

75.Fixed incorrect MEL when configuring Host Interface.

76.Fixed an issue with no related MEL when TSIG Authentication is disabled.

77.Fixed the issue that NVMe temperature would sometimes reach to 45°C.

78.Fixed an issue with empty uffn in backup or golden inventory.

79.Fixed the issue of "null users are not displayed on users page".

80.Fixed the issue of "Failed to Set LAN AutoConfiguration DHCPv6Mode Configuration".

81.Fixed the inconsistency of notifications(SNMP) between the Help page and actual web page.

82.[MEL-0093] Fixed the issue of "string not match with LAN Interface option naming".

83.[Redfish]Fixed '/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay.0' wrong status code.

84.[SMCIPMITOOL][IPV6]Fixed the issue of "Fail to set Alternative DNS server IP through SMCIPMITOOL".

85.[SMCIPMITOOL]Fixed an issue of BMC being temporarily disconnected when setting ipv6 dns 2 via command.

86.[SMCIPMITOOL]Fixed the issue of "DNSv4 mode raw commands doesn't work".

87.[SMCIPMITOOL]Fixed an issue of the wrong command return code.

88.Fixed the issue of "no Fan 6 sensor reading".

89.Fixed Redfish Inconsistency.

90.Fixed SUM -- Failed to Set LAN AutoConfiguration DHCPv6Mode Configuration.

91.Fixed the issue that users were unable to load SMTP pages.

92.Fixed the issue that redfish test failed on Check AccountService Accounts Method Privileges due to unexpected status code returns.

93.Fixed the issue that there is an extra backplane object on the BMC "Firmware Management" page.

94.Fixed the issue that the operator cannot have Full Access to the Event Log.

95.Fixed the issue that PATH '/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay.0' status code should be 405 but is actually 400.

96.[MEL] Fixed an issue with incorrect MEL when restoring to factory defaults. (raw 30 41)

97.Fixed the issue that logging out with enabled SMTP alert will create three MEL entries.

98.Fixed the issue that RoT State changed to disabled after factory reset

99.Fixed the issue that the BMC Host Interface becomes "Disabled"

100.Added MEL after changing the Host Interface "RNDIS Connection" or "CDC-ECM Connection".

101.Fixed the issue that Nvidia L40 GPU has no sensor and information.

102.Fixed the issue that the string did not match LAN mode naming.

103.Fixed the issue that Notifications(SNMP) in the Help page are inconsistent with the Actual WEB page.

1.02.23 (03/19/2024)

New Features:

1. Supported AOC-S400G-B1C.
2. Supported NIC CPLD update.

Enhancements:

1. Whenever an RBID increase is detected on uploaded firmware, a prompt will be displayed in the Redfish and Web GUI now.

2. Enhanced GPU Redfish API values.

Fixes:

1. Fixed an issue where the CPU sensor reading would change to "0" during DC on/off stress.
2. Fixed an issue where invalid ipv6 dns values could not be set using the SMCIPMITool raw commands.
3. Fixed an issue where toggling the system power will create a repeated "Host FW Password Deleted/Auto-Generated" entry in the MEL.
4. Fixed an issue of IPMI eject failure.
5. Fixed an issue with incorrect NVMe information during NVMe insertion and ejection.
6. Fixed an issue where the BMC "Task Queue" still displays "Starting" when multiple devices are plugged into/out of the system.
7. Fixed 1G full duplex option for network missing dedicated mode replication project link
8. Fixed an issue where VirtualMedia SMB did not support mounting via port.
9. Fixed an issue where PSU health status was abnormal when removing the power cord.
10. Fixed an issue where the power failure alert function didn't work.
11. Fixed an issue where the system cannot display the event log after unplugging the power cord.
12. Fixed an issue where MEL-0352 would occur even if the SMTP "Connection Protocol" and "Authentication" settings were not modified.
13. Fixed the issue of abnormal BMC PSU information after PSU hotswapping.
14. Fixed an issue where the system cannot eject any device when selecting all.
15. Fixed an issue of AOC firmware update failure via BMC.
16. Fixed missing NVMe BP and AOC_NIC2 sensors when executing the cburn-r87 DC on/off test item.
17. Fixed an issue with "TSIG.key" and "TSIG.private" where users could upload 0kb files on the DDNS page.
18. Fixed Web Functionality to allow use of Class D and E IPv4 addresses for DNS Server IP settings.
19. Fixed an issue that [MEL-0093] string does not match with the LAN Interface mode.
20. Fixed an issue that [MEL-0093] string does not match with the LAN Interface option naming.
21. Fixed an issue where the system hung on POST code "A2" after executing AC on/off or DC on/off.

1.03.11 (06/28/2024)

New Features:

1. Supported AOC-E810-XXVDA4.
2. Supported new feature: Each Field v1.33.
3. Fixed issue where LEN was missing an Active Interface when setting Static IPv6.
4. Supported AMD VPU (Video Processing Unit) MA350.
5. Enabled EventService RedfishEvent Https to allow self-signed CA.

- 6. Added RSA2048 key for license server from new IT HSM.
- 7. Made PreserveNetwork backward compatible with Redfish 2020.
- 8. Updated OSS Requirements.

Enhancements:

- 1. Upgraded SEL to 1.38 and merged SEL search methods into one function.
- 2. Upgraded MEL to 1.07 and added MEL 70 & 368. [169763] - Record incorrect MEL number when uploading IPMI config unsuccessfully.
- 3. Updated UC threshold for CXL.
- 4. Upgraded Redfish to 2021.2, RF1.14.
- 5. Enhanced help page for Java IKVM to add OpenJdk information.
- 6. Updated the SSDP Redfish version and fixed possible exception.
- 7. Updated slot format of Physical Storage view.
- 8. Updated fan list sort rule.
- 9. Removed “PreserveNetwork” parameter from ResetToDefault action.

Fixes:

- 1. Fixed issue where NVMe BP and AOC_NIC2 sensors were lost when executing cburn-r87 DC on/off test item.
- 2. Fixed issue where system cannot clear DNS server address via smcipmitool.
- 3. Fixed the issue of misspelling “necessary”.
- 4. Fixed issue that Redfish 2021.2 failed to GET
`/redfish/v1/UpdateService/FirmwareInventory/Backplane_1_CPLD_1`
- 5. Fixed issue where SAS drives were no longer listed under storage monitoring via Web GUI.
- 6. Fixed issue where WEBUI HDD Temp and SSD Temp show null; corrected Drive Status.
- 7. Fixed issue that checking SDHM read sensor CXL_CMMA/CXL_CMMB Temp failed.
- 8. Fixed issue of DDNS showing incorrect error message.
- 9. Fixed BMC Web disconnect issue after installing BlueField-3 B3220.
- 10. Fixed issue where using FAN icon did not change to Red Critical when FAN failure occurred on BMC WebUI.
- 11. Fixed issue where using WEBGUI to update BPN CPLD resulted in an error message [BPN-E1S5-126ES2N].
- 12. Fixed high NR temperature setting for IPMI E3.S drives on ASG-1115S-NE3X12R (H13SSF).
- 13. Fixed the vulnerability of XSS attack on KVM help page.
- 14. Fixed issue of DDNS accepting Invalid characters.
- 15. Fixed issue where LAN settings changed when rebooting BMC.
- 16. Fixed issue where Redfish @odata.etag properties did not include surrounding "" double quotes.
- 17. Fixed SEL Errors occurring before System booted into Windows 2025.
- 18. Fixed unresponsive System button on Dashboard.
- 19. Adjusted license of OemDumpService.Collect.
- 20. Fixed issue where sensors threshold '\LowNR\', '\Low CT\', and '\High NR\' and showed empty for Temperature Type.
- 21. Avoided wrong string and etag format in Redfish; corrected Redfish API deprecating and creation.
- 22. Fixed (CVE-2024-36435) SMC-2023110008 Buffer Overflow vulnerability [166219] [Security] GetValue not controlling length limit, causing stack buffer write overflow at X12DPG-OA6.
- 23. Fixed issue where System stuck at POST 92 during AC cycle test.
- 24. Fixed issue where BMC for H13SSF did not control FAN when AOC Temperature exceeded Threshold.

- 25. Fixed issue that AOC-S25G-m2s displayed Link status info under BMC Web GUI.
- 26. Fixed AC cycle failure issue.

1.03.16 (08/02/2024)

New Features:

- 1. Added smartnic related schema

Enhancements:

- 1. Redfish should allow external account service password length more than 20

Fixes:

- 1. Fixed the issue that preserve SSL certificate fail when updating BMC FW
- 2. Adjusted smartnic url index
- 3. Fixed the issue that enabled FW update function for AOC-SLG4-2H8M2 fail.
- 4. Fixed the issue that Host Interface cannot be restored after reloading ipmi configuration
- 5. Fixed the issue that Host Interface page cannot be restored after reloading ipmi configuration
- 6. Fixed the issue that the H13SSF sensor name doesn't follow spec definition.
- 7. Fixed the issue that failed to switch to Java plug-in after close the HTML5 iKVM session which is launched by 'redfish kvm' command
- 8. Fixed the issue that "Disable KCS" option on the web GUI is missing a space.
- 9. Fixed the issue that operator privilege unable to modify AC Power On Event Log button and FIFO Event Log button in HEL page.
- 10. Fixed the issue that error occurred when switching on/off "Enable AC Power On Event Log" and "Enable FIFO Event Log".
- 11. Fixed the issue that Advanced Settings status cannot be changed Operator privilege Health Event Log successfully
- 12. Fixed the issue that Advanced Settings status cannot be changed successfully

1.03.25 (09/24/2024)

Enhancement:

- 1.Moved the CXL controller data structure to share memory and fixed the risk of double mutex acquisition.
- 2.[Security Enhancement] Bind9: update to version 9.18.9 (9.18.15)
- 3.[Security Enhancement] OpenSSL library: update to version 1.1.1w
- 4.[Security Enhancement] SNMP: 5.7.3 to 5.9.3
- 5.[Security Enhancement] Remove dropbear and add OpenSSH 9.8p1
- 6.[Security Enhancement] Disable TLS v1.0 and TLS v1.1
- 7.[Security Enhancement] Weak Cipher Suite Removal.
- 8.[Security Enhancement] BOOST: 1.57.0 to 1.68.0
- 9.[Security Enhancement] BUSYBOX: 1.29_stable to 1.35.0
- 10.[Security Enhancement] LIBUV: new add 1.45
- 11.[Security Enhancement] SMTP: 1.4.32 to 1.8.23

New Feature:

- 1.Added support for Multi-Target Update in MutiPart.
- 2.Included BMCEvidence and BIOSEvidence dumps in OemDumpService.Collect.
- 3.Updated SEL Spec to version 1.39.
- 4.Updated MEL Spec to 1.08.

Fixes:

- 1.Fixed the issue that the SOL feature was retired in 2023 H2 at h12.
- 2.Fixed the issue causing the Task List page to remain in a loading state when using Safari browser.
- 3.Fixed the issue causing the BMC Reset page to remain in a loading state when using Safari browser.
- 4.Fixed the issue causing the BMC Settings page to remain in a loading state with Safari browser.
- 5.Fixed the issue causing the Account Services page to remain in a loading state with Safari browser.
- 6.Fixed the issue causing pages to remain in a loading state when using Safari browser.
- 7.Fixed the issue that error tips for IPv4 Address kept showing even after the input value was changed to valid by switching back to Auto Obtain IP.
- 8.Fixed the issue that the hostname field behavior did not follow the SW-PM definition when input exceeded 63 characters.
- 9.Fixed the issue that TSIG Authentication could be enable without a key and private file
- 10.Fixed the issue that sensor name changed from "AOC_SSDx Status" to "AOC_SSDx State."
- 11.Fixed the issue that adding a static IPv6 address via raw command (0x30 0x68 0x09) resulted in unexpected behavior when more than 6 addresses were added, with differing returns expected from BMC/SMCIPMITOOL.
- 12.Fixed the issue that stateful IPv6 mode in Auto-Configuration did not match the specification.
- 13.Fixed the incorrect definition of high CT and high NR for H100NVL and H200NVL GPUs.
- 14.Addressed the issue where updating an invalid BIOS file on the BMC web interfaceturned an error message that wasnot user-readable.
- 15.Fixed the issue that FlashBIOS failed after modifying SMBIOS data.
- 16.Fixed the issue with the SmartNIC update button being duplicated and displaying incorrect text.
- 17.Fixed the issue where BIOS & BMC options for Inventory Recovery were unavailable when no license key was activated.
- 18.Fixed the issue where raw channel authentication capabilities returned incorrect data length.
- 19.Fixed the issue that the device ID was an invalid data length.
- 20.Fixed the issue with cold reset requests containing invalid Data.
- 21.Fixed the issue that chassis capabilities were retrieved with an invalid data length.
- 22.Fixed the issue that the temperature sensor was displayed as a drive slot.
- 23.Fixed the issue that extra HDDs appeared on the webpage when two SAS controllers were installed.
- 24.Fixed the issue that the HDD size and temperature were missing in the IPMITool hdd info.
- 25.Fixed the MEL error related to SNMP.
- 26.Fixed the issue that Case320078+ failed to update on the 6202 MS.
- 27.Fixed the issue that error tips related to the IPv4 Address kept appearing, even after the input value is be changed to valid by switching back.
- 28.Fixed the issue that web_Func_Web session did not time out after the set value was reached.
- 29.Fixed the issue that web session did not time out when the set value was reached.
- 30.Fixed the issue with discrepancies in the Raw activate payload response.
- 31.Fixed the issue that the Raw Set LAN Configuration Parameters -> IP Address Source failed for LBMC.
- 32.Fixed the issue that the Raw get Fru inventory area info returned invalid data length.
- 33.Fixed the issue that setting an invalid username and password via IPMI caused errors.
- 34.Fixed the issue where setting IPMI user with a null password was allowed.
- 35.Fixed the issue that creating an user with an invalid ID returned an incorrect response message.
- 36.Fixed the issue that retrieving the channel payload version failed for both valid and invalid channels.
- 37.Fixed the issue that after executing 'ipmi delsdr', the deleted sensor did not appear on the BMC web interface but showed a Fail status when using the 'ipmi sensor' command.

- 38.Fixed some BMC security issues related to Case113119, where the Floppy Disk failed on the 9201MS/D301MS.
- 39.Fixed the issue that adding a static IPv6 address via IPMI raw command 30 68 09 resulted in an unexpected IPv6 address in the dashboard.
- 40.Fixed the issue that the Raw get/set/reset watchdog timer commands failed with invalid data length.
- 41.Fixed the issue that the M2_SSDx temperature reading was missing.
- 42.Fixed the issue that a new DCM node failed to initialize on the H13SSF-P.
- 43.Fixed some security issues.
- 44.Fixed the issue that the disk erase process failed to abort while the disk was executing the erase operation.
- 45.Fixed the issue that 12 test cases in the Redfish automation test failed.
- 46.Fixed the issue that the WebGUI update CPLD test failed.
- 47.Fixed the issue that 1 test case in the Redfish automation test failed.
- 48.Fixed the issue that operator permissions on virtual media mount caused a session timeout.