

IPMI Firmware / BIOS Release Notes Form

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Product Name	H13DSG-OM
Release Version	01.03.35
Release Date	11/26/2024
Previous Version	01.03.19
Update Category	Recommended
Dependencies	BIOS R 3.2
Important Notes	<p>IPMI image: BMC_H13AST2600-ROT20-8501MS_20241113_01.03.35_STDsp.bin IPMI update package: BMC_H13AST2600-ROT20-8501MS_20241113_01.03.35_STDsp.zip Note: For AMD EPYCTM 9005 Series Processor support, ensure your motherboard revision is R2.0 or higher. The required package versions are BIOS V3.0 or higher and BMC V01.03.25 or higher. Note that if you roll back the BIOS from V3.x (dual BIOS for AMD EPYC™ 9004/9005 Series Processors) to V1.x (single BIOS for AMD EPYC™ 9004 Series Processor), install an AMD EPYC™ 9004 Series Processor before performing the rollback.</p>
Enhancements	<ol style="list-style-type: none">1. Prevented PSU Fan/Fan Group from being marked as Critical/Fail when some slots were empty.2. [Security Enhancement] Bind9: updated to version 9.18.9 (9.18.15).3. [Security Enhancement] OpenSSL library: updated to version 1.1.1w.4. [Security Enhancement] SNMP: upgraded from version 5.7.3 to 5.9.3.5. [Security Enhancement] Replaced Dropbear with OpenSSH 9.8p1.6. [Security Enhancement] Disabled TLS v1.0 and TLS v1.1.7. [Security Enhancement] Removed weak cipher suites.8. [Security Enhancement] BOOST: Upgraded from version 1.57.0 to 1.68.0.9. [Security Enhancement] BUSYBOX: Upgraded from 1.29_stable to 1.35.0.10. [Security Enhancement] LIBUV: Added version 1.45.11. [Security Enhancement] SMTP: Upgraded from version 1.4.32 to 1.8.23.12. Updated the thermal table for GPU temperature.

	<p>13. Modified LicenseService platform support.</p> <p>14. Updated MI300X FW version display to show readable format instead of hexadecimal data.</p>
<p>New features</p>	<p>1. Upgraded the PLX lib from version 4.13 to 4.16.</p> <p>2. Updated the SEL specification to version 1.39.</p> <p>3. Updated the MEL specification to version 1.08.</p> <p>4. Enabled liquid detection capability for LCC systems when a new cold plate is installed.</p> <p>5. Added support for the Redfish standard API: /redfish/v1/LicenseService.</p> <p>6. Added support for ldap RFC2307bis.</p> <p>7. Added temperature monitoring for AOC MCX75310AAS-NEAT transceiver on AOC_PORT.</p> <p>8. Added transceiver temperature monitoring for AOC-G200G-B1C, AOC-S400G-B1C, AOC-A200G-B1C, and AOC-A400G-B1C ports.</p>
<p>Fixes</p>	<p>1. Fixed issue where WebGUI failed the update the CPLD test.</p> <p>2. Fixed issue where Redfish Automation test 1 TC failed.</p> <p>3. Fixed issue where Operator Permission on Virtual Media mount caused session timeout.</p> <p>4. Fixed issue where Air Cooling Fan RPM showed values after power supply removal.</p> <p>5. Fixed issue with HWM sensor.</p> <p>6. Fixed issue where 12 Redfish automation test cases failed.</p> <p>7. Fixed issue where CX7 cards firmware inventory was missing.</p> <p>8. Fixed issue where M2_SSDx Temp readings were missing.</p> <p>9. Fixed issue where MEL for SNMP error logging.</p> <p>10. Fixed issue where invalid IPv4 address error persisted after switching to Auto Obtain IP.</p> <p>11. Fixed issue where Web_Func_Web session didn't timeout after reaching the configured value.</p> <p>12. Fixed issue where Web Session didn't timeout when reaching the configured value.</p> <p>13. Fixed issue where temperature sensor was incorrectly displayed as Drive Slot.</p> <p>14. Fixed issue where hostname field validation for inputs exceeding 63 characters.</p> <p>15. Fixed issue where HTML tags were visible when uploading configuration files.</p> <p>16. Fixed issue with extra space character in BMC configuration upload prompt.</p> <p>17. Fixed issue where markdown tags were visible in IPMI Configuration reload message ("Uploading new configuration...please wait until process is completed! BMC must be reset to apply any changes.").</p> <p>18. Fixed inconsistency between Redfish and SMTP test events.</p>

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| | <ul style="list-style-type: none">19. Fixed issue where Management Subsystem Health Temp 1-4 degraded after AC power cycle.20. Fixed default Host Interface state being OFF.21. Fixed issue where MEL log was incorrectly generated when deleting SNMPv2 Access Mode.22. Fixed issue where PSU fan sensors remained active after PSU removal.23. Fixed issue where BMC failed to obtain an IPv6 Gateway IP when using DHCPv6 Stateful configuration on web interface.24. Fixed issue where Host Interface USB1 disappear after re-enabling Host Interface.25. Fixed issue where "IPv6 AutoConfiguration was disabled successfully" Message appeared after changing LAN interface.26. Fixed issue where invalid sender's address generated inconsistent error messages.27. Fixed 404 error when accessing /redfish/v1/Chassis/1/Assembly.28. Fixed issue where BMC cooling page didn't display CPU coldplate, CPU tray, PCIe Manifold in Liquid cooling information.29. Fixed issue where system health status didn't display "Critical" during leakage events.30. Fixed issue where iKVM power cycle action didn't generate MEL logs. |
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Release Notes from Previous Release(s)

01.03.19 (08/22/2024)

1. Fixed issue where the "Preserve SSL Certificate" option failed during BMC firmware update.
2. Fixed #PB176229 where HGX log dump was not functioning.
3. Fixed issue where Redfish ATT test failed.
4. Fixed issue where sensor thresholds "LowNR," "Low CT," and "High NR" were empty for temperature type.
5. Fixed issues with incorrect strings and ETag formats in Redfish and corrected Redfish API deprecations and creations.
- 6 Fixed CVE-2024-36435 buffer overflow vulnerability.
7. Implemented backward compatibility for PreserveNetwork in Redfish 2020.
8. Fixed issue where Redfish @odata.etag properties lacked surround double quotes("").
9. Fixed issue where AOC-STG-b2T could not be updated via the web interface.
10. Fixed issue where FAN5 disappeared from the BMC WebGUI Fan page.
11. Adjusted the license handling of of OemDumpService.Collect.
12. Fixed issue where AOM_PLX_x temperature showed as N/A in the BMC WebGUI sensor page.
13. Updated the SSDP Redfish version and fixed a potential exception.
14. Fixed issue where DDNS Showed incorrect error messages.
15. Fixed issue where the BMC web interface disconnected after installing BlueField-3 B3220.
16. Fixed issue where the FAN icon did not change to red, indicating critical, when a fan failure occurred in the BMC WebGUI.
17. Fixed issue where WebGUI displayed HDD and SSD temperatures as null and corrected drive status.
18. Fixed issue where Redfish 2021.2 failed to GET /redfish/v1/UpdateService/FirmwareInventory/Backplane_1_CPLD_1
19. Fixed issue where the "Mark as Acknowledged" on the HEL page did not show hover text when no license or OOB license was present, requiring a DCMS license.
20. Fixed issue where the "Mark as Acknowledged" and "Clear Acknowledgements" buttons were disabled without showing hover text regarding DCMS license requirements for the Health Event Log.
21. Fixed issue where the "Mark as Acknowledged" button on HEL would not prompt the required license diagram for no/OOB license cases.
22. Fixed issue where LDAP's StartTLS was not aligned with the UI spec definition.
23. Removed fan control for CPU, GPU, and HBM in 4U systems.
24. Removed FAN5 from the 4U system.
25. Corrected the misspelling of "necessary."
26. Supported AMC sync of date and time with the BMC when BMC sets the date and time.
27. Fixed issue where incorrect GPU temperature sensors were shown while system was idle in liquid cooling systems.
28. Fixed issue where EventService RedfishEvent HTTPS allowed self-signed CA.
29. Fixed UBB temp sensor degradation or unavailability SELs during DC OnOff.
30. Fixed issue where LAN was missing from the Active Interface when setting a static IPv6 address.
31. Fixed issue where the leakage sensor was not working.
32. Fixed issue where MEL timestamps were incorrect when executing the "Update and Recover" function under Platform Resiliency Actions page.
33. Fixed issue where the "ReTimer Temp" sensor name was incorrect, causing TC0031 to fail.
34. Added FRU PPM strings "-LCH1-" and "-LCH2-" for liquid cooling systems.
35. Fixed issue where the "Disable KCS" option in the web GUI was missing a space.
36. Fixed issue where the IPMI WebGUI Cooling tab did not display RPM for all fans.
37. Fixed issue where the Operator privilege could not modify the "AC Power On Event Log" button and "FIFO Event Log" button on the HEL page.

38. Fixed issue where errors occurred when toggling the "Enable AC Power On Event Log" and "Enable FIFO Event Log" settings.
39. Fixed issue where the status of Advanced Settings could not be changed successfully under Operator privilege in the Health Event Log.
40. Fixed issue where the status of Advanced Settings could not be changed successfully.
41. Fixed issue where IKVM exceeded the maximum session limit.
42. Fixed issue where the Host Interface could not be restored after reloading IPMI configuration.
43. Fixed issue where the Host Interface page could not be restored after reloading IPMI configuration
44. Added error tips for IPv4 address validation, ensuring the message updates when switching back to "Auto Obtain IP" after input changes.
45. Fixed issue where the Hostname field did not follow SW-PM definition when input exceeded 63 characters.
46. Fixed issue where the Hostname field did not follow SW-PM definition when input exceeded over 63 characters.
47. Changed the sensor name from "AOC_SSDx Status" to "AOC_SSDx State."
48. Added static IPv6 address support via raw command (0x30 0x68 0x09), with expected different returns when more than 6 addresses are present in BMC/SMCIPMITOOL.
49. Fixed issue where Stateful IPv6 Mode in auto-configuration did not match the specification.
50. Fixed issue where the high CT and high NR definitions for H100NVL and H200NVL GPUs were incorrect.
51. Updated the error return for invalid BIOS files uploaded on the BMC web interface to be more user-friendly.
52. Moved the SmcAttestationDump API to AttestationCollect.
53. Fixed issue where FAN1 to FAN4 could not be controlled in 4U DLC systems.
54. Fixed issue where the SmartNIC update button was duplicated, along with word display issues.
55. Added SmartNIC-related schema.
56. Adjusted GPU firmware update parameter(mi300x).
57. Added the board-specific FAN control function to the general FAN control raw command.
58. Adjusted the query action process of OemDumpService.Collect (mi300x).
59. Enhanced OSS requirements.
60. Added support for Liquid Leakage in IPMI SDR and Redfish API.
61. Removed the action for the "PreserveNetwork" parameter in ResetToDefault.
62. Fixed issue where DDNS accepted invalid characters.
63. Improved LAN settings to change when rebooting BMC.
64. Revised fan list sort rule.
65. Implemented measures to prevent SEL errors from occurring before the system boots into Windows 2025.
66. Fixed issue where the system button in the dashboard had no response.
67. Updated the slot format of the Physical Storage view.
68. Added OEM command 0x30 0x68 0x3A for Liquid Leakage.
69. Forwarded MI300X events to the BMC.
70. SAS drives are no longer listed under storage monitoring in the Web GUI.
71. Enabled the Group Sensor in Sensor schema and Redfish API 2021.2.
72. Added rejection for create action during MI300X doing full log dump.
73. Added MI300XAllLogs dump of OemDumpService.Collect.
74. Added RSA2048 key for the license server from new IT HSM.
75. Enhanced help page for Java Ikm to include OpenJdk information.
76. Added more platforms to use the newer ServiceRoot version.
77. Redfish has been updated to allow external account service passwords longer than 20 characters.

78. Fixed issue of continuous loading on the Task List page in Safari browser.
79. Fixed issue of continuous loading on the BMC Reset page in Safari browser.
80. Fixed issue of continuous loading on the BMC Settings page in Safari browser.
81. Fixed issue of continuous loading on the Account Services page in Safari browser.
82. Fixed issue of continuous loading across various pages in Safari browser.
83. Grouped PSU fans under one fan group.
84. Added Liquid Leakage UI implementation.
85. Updated Redfish to version 2021.2 and RF1.14.
86. Added support for the new feature "Each Field" v1.33.
87. Added support for AMD VPU (Video Processing Unit) MA350.
88. Added BMC Evidence and BIOSEvidence dumps of OemDumpService.Collect.
89. Improved AMD 4U DLC fan control to reduce noise.

01.02.33 (04/26/2024)

1. Unified the HGX H100 web UI and REDFISH management.
2. Added support for one-click HGX log dump.
3. Added support for Liquid Leakage IPMI SDR and Redfish API.
4. Adjusted 4U HGX fan curve.
5. Implemented web UI prompts – 11162023.
6. Added support for AOC-E810-XXVDA4.
7. Upgraded SEL to 1.38 and merged sel search method into one function.
8. Upgraded MEL to 1.07 and added MEL 70&368.
9. Added support for Redfish BMC fields v1.33 and v1.34.
10. Added support for AOC-S400G-B1C.
11. Added support for MI300X GPU device in web UI.
12. Added support for HGX simpleupdate and ForwardService post-binary.
13. Fixed all UBB sensors Dropped during DC on/off.
14. Fixed PLX sensor drop during DC on/off testing.
15. Fixed serial numbers in NVMe drives being all the same and not matching with those on the BMC web UI.
16. Fixed failure to clear IPv6 DNS address via SMCIPMITool.
17. Fixed inability to update BP CPLD FW via the BMC web UI.
18. Fixed the existence of extra HGX_H100-related links that should not have been there.
19. Fixed issue where when UBB Sensors were N/A, fans should have been at full speed but were showing minimum speed instead.
20. Fixed recording of wrong MEL number when IPMI config upload was unsuccessful.
21. Fixed the ability to set DNS Server 1 and 2 IP to duplicate values via SMCIPMITool.
22. Fixed an issue with the web function where "0.0.0.0" was not allowed to be saved in the "Server Address" field.
23. Fixed issue with allowing Classes D and E of IPv4 addresses for the DNS Server IP setting.
24. Fixed issue where the Server Address field accepting over 255 characters, which did not match the spec defined for AD and LDAP.
25. Fixed issue where SUM could not mount ISO with IPv6 through SAMBA UNC.
26. Fixed issue where SUM failed to mount an ISO file with IPv6 address (ExitCode:148).
27. Fixed issue where updating the Backplane, Midplane, Fan/CPU/AIOM/AOM board CPLDs did not present MEL ID with the MEL.
28. Fixed issue where no NAOC FW update icon appears on the BMC web UI.
29. Fixed issue where UBB Temp Sensor Access Degrade/Unavailable SELs occurred during DC on/off.

01.02.20 (02/27/2024)

1. Fixed issue with UBB Temp Sensor Access Degrade/Unavailable SELs during DC OnOff.
2. Corrected unexpected population of dummy fans during DC OnOff testing.
3. Fixed issue with Sensor Access Degrade/Unavailable SELs during DC OnOff.
4. Fixed issue with adjusting 8U MI300X fan curve.
5. Fixed issue where only one log was recorded after iKVM reset.
6. Fixed issue where Maintenance Event Log and License Activation had the same numbers on Help Page.
7. Fixed issue with the 8U fan sensor.
8. Fixed issue with incomplete display of table fields.
9. Fixed issue with adding Fan 5 in 4U.
10. Fixed issue with the active license name returned a 500 error.
11. Fixed issue with incorrect MEL Log message configuration when configuring Dynamic DNS.
12. Fixed issue with incorrect IPMI values.
13. Fixed issue where BMC rules were defined for all SKUs if "CPU Temp" was missing.
14. Fixed issue where MI300X discovering and monitoring made BMC unstable.
15. Fixed RCE on Account Service API at H13DSG-OM.
16. Fixed issue where VirtualMedia SMB did not support mounting with a port.
17. Fixed issue where PSU health status was abnormal upon power cord removal.
18. Fixed issue where the Power Fail alert function didn't work.
19. Fixed issue where event logs could not be displayed after removing the power cord.
20. Improved Redfish performance.
21. Added "*" for required blanks on the Dynamic DNS page.
22. Enhanced HGX sensor and threshold functionality.
23. Implemented PLX firmware update via ScrutinyLib.

01.02.12 (01/18/2024)

1. Fixed the incorrect error message about the shared host.
2. Fixed the issue where HGX Inlet Temp was too high.
3. Updated Inlet Temp regex.
4. Fixed the issue where invalid IPv6 DNS values could not be set using SMCIPMITool raw commands.
5. Fixed the issue where the CPU sensor reading became "0" during DC on-off stress.
6. Added support for MI300 FW update on BMC web.
7. Added support for Redfish MI300 firmware update.
8. Fixed the issue where the GPU Sensor page displayed MI300.
9. Fixed the issue where the Redfish ATT test failed.
10. Fixed the issue where the serial number was randomly replaced on the GPU sensor page after being idle for three to five minutes.
11. Corrected 4U and 8U detection.
12. Resolved the BPN-NVME5-228N-S4 detection issue.
13. Added support for individually updating firmware for each hardware component.
14. Fixed issue where BMC Host Interface became "Disabled."
15. Added MEL after the Host Interface was changed to "RNDIS Connection" or "CDC-ECM Connection."
16. Added the property "Product" for /redfish/v1.
17. Enabled the USB LAN 2 options feature (WEB).
18. Fixed the issue in SUM where LAN AutoConfiguration DHCPv6Mode Configuration failed to be set.
19. Fixed the issue where the SMTP page was not able to loaded.
20. Redfish test fail on Check AccountService Accounts Method Privileges due to unexpected status code return

21. There is an extra backplane object on BMC "Firmware Management" page.
22. Fixed the issue where the operator could not have full access to the Event Log.
23. Fixed the issue where the status code for
PATH '/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay.0' displayed 400 instead of 405.
24. MEL is incorrect when restore to factory default. (raw 30 41)
25. Fixed the issue where three MEL entries were created when logging out while the SMTP alert was enabled. .
26. Fixed the issue where HGX_BMC Temp was lost after an on/off cycle test.
27. Fixed the issue with fan curve and threshold for HGX H100.
28. Fixed the issue with fan curve and threshold for MI300.
29. Fixed the issue where the GPU firmware version was not displayed on the IPMI WebUI.
30. Fixed the issue where IPv6 Address and Prefix Length data were not displayed when DHCPv6 Stateless was set.
31. Fixed the issue where HGX_GPU-related sensor lost in the sensor page under BMC GUI after an AC on/off cycle.
32. Fixed the issue with the 4U system fan reading.
33. Enhanced the USB1 detection mechanism to prevent HMC/AMC drops.
34. Resolved the issue where GET LCMC API via Redfish API worked even if web support wasn't available.
35. GPU Sensor page - MI300 APIs support "Firmware Version" field
36. Prompt will now show in Redfish and Web GUI whenever RBID increase has been detected on uploaded firmware
37. Enhanced the GPU Redfish API value.
38. Added support for OpenJDK.

01.02.00 (12/13/2023)

First release.