IPMI Firmware Release Notes Form

Product Name	**X11DPU**
Release Version	**1.74.13**
Release Date	**9/27/2023**
Build Date	**8/2/2023**
Previous Version	**1.74.11**
Update Category	**Critical**
Dependencies	**None**
Important Notes	**None**
Enhancements	**None**
New features	**None**
Fixes	**1. IPMI configuration backup file remote command execution** **2. Security Fixes: CVE-2023-40287, CVE-2023-40288, CVE-202340286, CVE-2023-33413.**

Release Notes from Previous Release(s)

1.74.11(10/27/2022) *1. Block I2C master w/r command for VRM channel (channel 1).*

2. Prolong execution time on VRM utility.

3. Order: ECO20220419B ; SKU: SYS-7039A-I (X11DAI-N-P);

4. [147147] VRM utilities can be used on X11QPH+ when battery is INSTALLED

5. Disconnecting problems when switch from 1G switch to 100M switch. (P.S. This is work around solution)

6. [IPMI ECO(1.74.08)] Run VRM tool can fail without battery Copy Project Issue Link

7. [147160] Virtual Media on HTML5 iKVM console is nonfunctional

1.74.02(02/25/2022)

1. Support 39xx, 38xx storage card sensor reading.

2. Support new Realtek PHY RTL8211FD-VX-CG driver.

3. [129981] STD -- 17212 -- 01.00.14 – Anonymous account or null value can be created on X11 and X12. [130390] STD -- 17212 -- 09.11.50 BETA – [Security] Buffer overflow in ipmi_lan ASF protocol. [130823] BETA -- 17212 -- 07.30.31 -- [Security] resolv.conf won't be deleted, it may cause a potentially DNS Hijacking.

4. Remove SSH weak MAC Algorithms Enabled.

1.73.13(09/07/2021)

1. Please contact thermal team to provide GPU thermal guide.

2. [126862] "STD---1.72.12-- Unable to save valid domain name on AD page "

3. Remove SSH weak MAC Algorithms

4. Fix Cross Site Scripting(XSS) vulnerability

1.73.12(05/10/2021)

1.Setup IPV6 SLAAC, Supermicro treat SLAAC IP is different with HPE

1.73.11(03/10/2021)

1. Fixed failure to delete AD group from web.

2. Fixed failure of failed alert to appear in 'Trap Receiver' and malfunction of SNMP alert.

3. Fixed missing "AOC_NIC_Temp" IPMI sensor during AC on/off test.

4. Added support for PLDM sensor reading on add-on NIC cards.

5. Added support for AMD MI100 GPU HBA temperature display if it is hotter than on-die temp.

1.73.06 (11/20/2020)

1.[109038] BMC issued multiple alerts when hard drive failed.

2.[107022] AOC_M2_temp sensor reading is missing from standard IPMI fw for M.2 NVMe Installed in "AOC-SLG3-2M2". form 299-00-190723-001 AOC NVMe M.2 Sensor Reading (299-00-190723-001) AOC NVMe M.2 Sensor Reading.docx

3.Fix Security fix.

4.[113732] SMT_X11AST2500_173_02 bmc fw will cause my linux OS failed to reboot.

5.[111750] IPMI ECO Automation fail caused by KCS error" [111536] IPMIECO Automation test failed on firmware v1.73.02 [110191] IPMI ECO automation test failed.

6.[109897] IPMI displayed the same location slot 2 for two AOCs at the different bus numbers. [108731] The "Model:" item reported "UNKNOWN 0x00000000" in the controller information table. [108699] The "Manufacturer:" item displayed "Illegal Vendor ID" for the controller information. [108037] Vendor information is not displayed correctly for HDD SATA drive at Physical Drive View. [101720] Device 0 and Device 1 should not be displayed at the same location slot 2.

7.[108062] Installed NVMe SSD's not getting displayed in latest IPMI FW Rev : 1.73.01 (3/16).

8.OOB Bios update function failed via SUM 2.5.0.

9.[114398] Fail to set LDAP Server Address through SMCIPMITool

10.[108961] [SUM]SUM 2.5.0(2020/04/17) execute Get GpuInfo command function failed

11.Fixed bugs that Fan control can't work for AOCM2.

12.[115672] Unable to set user name at a maximum of 16 characters Error message 'User name must be 4~16 characters.' should be 'User name must be 4~15 characters.'

13.[115460] ECO --10922 -- 01.52.06(07/27/2020) -- SSL Certification confirm window has typo

14.[115302] user permanently lock out after exceeded lockout times and by SMCIPMITOOL

15.[115893] Redfish automation: 1 test case failed [115833] [IPMI ECO 1.73.04] Redfish API update [115636] [IPMI ECO] Redfish automated test failed

16.[119528] STD -- 9169 -- 01.73.06(11/03/2020) -- Hardware information

17.Support N3000 card.

1.71.22 (8/26/2020)

1. Fixed IPMI Temp Sensor Reading on AOC-SLG3-2M2-O.

2. Fixed problem of BMC issuing multiple alerts when hard drive fails.

3. Fixed problem of user being permanently locked out after exceeding lockout times by SMCIPMITool.

4. Fixed problem of DIMM temperature sensor value randomly showing as 255 degrees.

5. Corrected error message from 'User name must be 4~16 characters.' To 'User name must be 4~15 characters.'

1.71.20 (5/7/2020)

1. Fixed problem of BMC issuing multiple alerts when hard drive fails.

2. Fixed missing AOC_M2_temp sensor reading from standard IPMI firmware for M.2 NVMe installed in "AOC-SLG3-2M2".

3. Implemented security fix.

1.71.11 (10/25/2019)

1. Added BMC firmware solution to program and store unique pre-programmed password.

2. Fixed inconsistent behavior for factory function.

3. Corrected message for Delete User Without Selecting Slot.

4. Fixed ability to clear unique password using raw command 0x30 0x74 0x2.

5. Fixed ability to remove unique password set bit by IPMITool raw command.

6. Corrected response 204 when posting factory default with invalid option value on Redfish and response 503 when posting factory default with empty body on Redfish.

7. Fixed failure of Java KVM to block Virtual Media section and show warning message when virtual media port is disabled.

8. Corrected verification of the concatenate string of unique password.

1.71.6 (8/30/2019)

1. Added patch for CVE-2019-6260 pantsdown.

2. Added support for new Uboot code version.

3. Added support for third number (build version) of IPMI firmware version.

4. Added BMC Account Security.

5. Added modification for event severity.

6. Enabled sending all event logs (Health & Maintenance) to Syslog server.

7. Added UefiPxe to Redfish System boot order.

8. Added support for DCPMM (AEP DIMM) sensor reading.

9. Fixed inability to read I2C temperature sensor of LSI 3108 for systems or to see storage monitoring WebGUI.

10. Fixed issue with WebUI formatting.

11. Corrected the sensor quantity of BMC.

12. Fixed mismatch of Redfish FullList Allowed Operation.

13. Fixed problem of false reports from 10 HDDs pulled at the same exact second being reported as degraded controller.

14. Changed default password to !@#$%^&* after old or new password fails remotely.

15. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.

16. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.

17. Fixed problem of IKVM/HTML5 being disabled.

18. Fixed problem of the IPMI "Create Virtual Drive" option being inconsistent in different web browsers and failure of WebGUI IPMI to display Controller information with Internet Explorer 11.

19. Fixed issue with IPMI web formatting for system.

20. Fixed failure of STAC Redfish automation test and inability to access Redfish with RADIUS session after factory default.

21. Fixed problem of IPMI RADIUS authentication client returning Localhost IP In NAS-IP-Address/, malfunction of IPMI RADIUS authentication if authentication is delayed for over 3 seconds, and problem of IPMI RADIUS authentication violating attribute 26 specification.

22. Fixed incorrect KEYPAD * and + key maps via IPMI iKVM console and KEYPAD on physical keyboard.

23. Fixed failure of DPCMM sensor reading and corrected DPCMM thermal curve.

24. Fixed incompatibility of IPMI after update.

25. Fixed problem of StorageController 2 access becoming degraded or unavailable.

26. Fixed missing leading zero in minor version of /Managers/1/ FirmwareVersion.

27. Fixed problem of SEL showing error message after AOC-S3108 updates firmware.

28. Fixed multiple vulnerabilities with Supermicro BMC Virtual Media.

29. Corrected maximum allowed password length shown for /redfish/v1/AccountService MaxPasswordLength.

30. Fixed problem of IPMI WebGUI system status showing as critical after CPU overheat de-assertion.

31. Fixed failure to preserve the BMC configuration from release version to new version.

1.64 (1/16/2019)

1. Revised Redfish firmware inventory (BIOS/BMC update).

2. Revised Redfish "Actions" for clearing event log.

3. Changed FirmwaveInventory to SmcFirmwaveInventory to prevent user confusing with Redfish standard definition.

4. Changed NodeManager to SmcNodeManager to prevent user confusion with Redfish standard definition.

5. Set the MAC address format to revert to "xx:xx:xx:xx:xx:xx" in order to prevent backward compatibility.

6. Changed the naming for "Health Event Log" and "Maintenance Event Log" in Web UI.

7. Migrated the IPMI Event Log to the URL "redfish/v1/Systems/1/LogServices" in Redfish and changed the name "Event Log" to "System Management Log" in Redfish and Web UI.

8. Updated the threshold of the AMD GPU (MI8/MI25).

9. Added support for MB_NIC_temp1 reading on AOC-URN4-b2XT.

10. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.

11. Added new Redfish features for downloading and uploading IPMI configuration.

12. Added support for TaskService feature during BMC and Broadcom storage controller update in Redfish.

13. Added parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking.

14. Added support for Redfish SimpleUpdate for BMC and BIOS firmware.
15. Added support for saving 3108 storage controller status event.
16. Added support for NIC/GPU Asset Information on Redfish.
17. Added hardware component status in Redfish/WebGUI.
18. Added support for TaskService feature during BIOS update in Redfish.
19. Added support for Node Manager feature in Redfish.
20. Added new feature for GUID/BoardID in Redfish.
21. Added new feature for event data extension in Redfish.
22. Added OEM event Description and Severity in Redfish/WebGUI.
23. Added OEM Event Alert.
24. Provided Event Acknowledgment for the events with Warning/Critical severity level.
25. Enabled clearing all system event logs without generating any log and dumping all the system event logs.
26. Added BMC support to monitor controller temperature, attached physical drive temperature, and attached physical drive status of Broadcom storage controller 3008/3216 (HBA/Host Bus Adapter).
27. Added support for BMC Event Log in Redfish and renamed the function name from "System Event Log" to "BMC Event Log" in Web UI.
28. Added support for the feature of riser with multi-chip.
29. Added BMC support for Hynix memory.
30. Fixed inability to update 3108's firmware over BMC's Web page if Physical/Logical device is on the card.
31. Fixed display of CPLD (51 10) version in IPMI Web GUI to match CPLD firmware.
32. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.
33. Fixed missing AOC card temperature when power first turned on by Intel(R) Xeon(R) Gold 6142F CPU at 2.60GHz.
34. Fixed issue of machine resetting itself continuously.
35. Fixed failure of Redfish Automation test and Redfish API test.
36. Fixed missing temperature reading for Nvidia V100.
37. Set AC Power On Event log to be reported when BMC executes cold reboot.
38. Fixed display of Solarflare NIC sensor.
39. Fixed problem of 200 being returned when PATCH PowerLimit reaches over 32767 in Redfish.
40. Fixed failure of NVMe temperature sensor reading to decrease.
41. Fixed problem of IPMI Web showing system warning after updating firmware to 1.54.
42. Fixed problem of ME firmware crashing when running SUM test.
43. Fixed inability of IPMICFG and IPMITool to change IPMIIPv6 mode.
44. Fixed inconsistency in BMC MAC address format.
45. Fixed inability to remove DNS server IPv6 address.
46. Fixed failure of NVMe eject and insert feature in Event log.
47. Fixed incorrect message appearing on iKVM/HTML5 page when disabling IKVM port.
48. Fixed incorrect AOC NIC sensor threshold.
49. Fixed missing FAN9 header on motherboard despite FAN9 sensor reading appearing on IPMIWeb.
50. Fixed problem of the system showing as normal when the power fails.
51. Fixed failure of timeout value for graceful shutdown feature.
52. Fixed failure to update SSL certificate file.
53. Fixed failure of IPMI SOL.
54. Fixed multiple Web UI formatting issues.

55. Fixed malfunction of IPMI Web Date & Time Configuration.
56. Fixed issue of the system status not referencing PSU state when AC is lost.
57. Fixed problems of the sessions timing out after accessing system event log page and of BMC continuously rebooting.
58. Fixed inability of AOC NIC Threshold to follow Thermal Guidelines.
59. Fixed failure of Redfish Automation Tool check and SATC test.
60. Fixed problem of inconsistent return codes (200, 500, 503) occurring from BMC using ApacheBench.
61. Fixed problem of motherboard with Broadcom storage controller ??3108 installed with BBU (battery unit) on it generating one BBU de-assertion event at every BMC reboot and System reboot.
62. Fixed inability to detect MI25 GPU.
63. Fixed issue of "Save uncompleted" message appearing when changing and saving time on IPMI Web.
64. Fixed problem of DCMS license activation showing inconsistent results between IPMI firmware 1.52 and 1.61.
65. Fixed problem of WebUI disappearing after selecting simplified Chinese language.

1.53 (6/15/2018)

1. Added support for Intel RSTe RAID status reporting for TAS + BMC Firmware Support TAS ver. 1.5.2 and extended SEL explanation for sensor type 0x0D (Drive Slot).
2. Added support for MB_NIC_temp 1 reading on AOC-URN4-b2XT.
3. Revised Redfish firmware inventory (BIOS/BMC update).
4. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.
5. Added new Redfish features for downloading and uploading IPMI configuration.
6. Revised Redfish "Actions" for clearing event log.
7. Fixed inability to update 3108 via IPMI WebGUI.
8. Fixed problem of CPLD (51 10) version displayed in IPMI WebGUI not matching loaded CPLD firmware (5112_07282017.jed).
9. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.
10. Fixed missing AOC card temperature when power first turned on by Intel(R) Xeon(R) Gold 6142F CPU at 2.60GHz.
11. Fixed problem of the machine continuously resetting itself.
12. Fixed failure of Redfish API test.
13. Fixed missing temperature reading for NVIDIA V100.
14. Set AC Power On Event log to be reported when BMC executes cold reboot.
15. Fixed problem with Solarflare NIC sensor display.

1.47 (3/13/2018)

1. Added support for BBP2 feature.
2. Added Intel OTA feature to fix failure of SMC OOB TPM Provisioning via IPMI feature for customized provisioning table.
3. Added adaptive temperature threshold in SDR for drives connected to 3108.
4. Enabled AC Power On Event log.
5. Set AC Power On Event log to be reported when BMC executes cold reboot.
6. Added Redfish memory information feature.

7. Fixed failure of Redfish automation test.
8. Fixed problem of IPMI SDR showing two "AOC_NIC_Temp" readings when SIOM AOC-MTG-i4T is installed.
9. Fixed incorrect power readings on "power consumption" page.
10. Changed UTC zone time by SMCIPMITool commands.