IPMI Firmware Release Notes Form

Product Name	**X11SPL-F**
Release Version	**1.73.15**
Build Date	**02/02/2022**
Previous Version	**1.73.12**
Update Category	**Recommended**
Dependencies	**None**
Important Notes	**None**
Enhancements	**N/A**
New features	**N/A**
Fixes	**Fixed the following issues:** 1. **Anonymous account or null value can be created on X11 and X12.** 2. **Buffer overflow in ipmi lan ASF protocol.** 3. **resolv.conf can't be deleted** 4. **Remove 'SSH weak MAC Algorithms Enabled'.** 5. **jQuery 1.2 < 3.5.0 Multiple XSS (cross scripting vulnerability).** 6. **Unable to save valid domain name on AD page.**

1.73.12 (5/10/2021)

1. Added support for PLDM sensor reading on add-on NIC cards.
2. Restored missing "AOC_NIC_Temp" IPMI sensor during AC on/off test.
3. Fixed failure of 01.73.09 firmware to show PSU sensor reading under WebGUI.
4. Fixed failure to delete AD group from web.
5. Fixed issue of two AOCNIC Temperatures showing for one SIOM card.
6. Fixed failure of failed alert to appear in 'Trap Receiver' and malfunction of SNMP alert.

1.73.05 (9/15/2020)

1. Changed Storage WebUI.
2. Added support for device auto-discovery within a rack for RSD.
3. Added support for Redfish 1.8 API.
4. Added support for HTML5 VM, BMC UI, and Redfish system component health status, and changed remote console UI.
5. Added support for IPv4 and IPv6 stack selection.
6. Added support for BMC KCS interface security solution.
7. Added support for WebUI button requirements.
8. Added support for AOC NVMe M.2 sensor reading.
9. Added support for IPv6 and FQDN address configuration.
10. Added support for SNMPv3 Trap and new MIBs feature.
11. Corrected error message from 'User name must be 4~16 characters.' to 'User name must be 4~15 characters.'
12. Corrected typo in SSL Certification confirm window.
13. Fixed problem of user being permanently locked out after exceeding lockout times by SMCIPMITool.
14. Fixed failure of Redfish automated test.
15. Fixed failure to set LDAP Server Address through SMCIPMITool.
16. Fixed malfunction of fan control with AOCM2.
17. Fixed failure of Linux OS to reboot due to BMC firmware.
18. Fixed problems of IPMI displaying the same location for two AOCs at different bus numbers, the "Model:" item reporting "UNKNOWN 0x00000000" in the controller information table, the "Manufacturer:" item displaying "Illegal Vendor ID" for the controller information, vendor information displaying incorrectly for HDD SATA drive at Physical Drive View, and Device 0 and Device 1 both displaying at slot 2.
19. Fixed failure of installed NVMe SSDs to display in latest IPMI firmware Rev. 1.73.01 (3/16).
20. Fixed problem of the Storage Monitoring page appearing without storage card present.
21. Corrected license for HTML5 VM.
22. Fixed inconsistency between X11 and X10 firmware for long hostname string.
23. Fixed problem of SMASH only taking up to 403 characters before disconnecting.
24. Fixed problem of BMC issuing multiple alerts when hard drive fails.

1.71.19 (3/12/2020)

1. Fixed missing AOC_M2_temp sensor missing from standard IPMI firmware for M.2 NVMe installed on AOC-SLG3-2M2.

1.71.16 (11/20/2019)

1. Added support for third number (build version) of IPMI firmware version.
2. Added BMC Account Security.
3. Added modification for event severity.
4. Enabled sending all event logs (Health & Maintenance) to Syslog server.
5. Added UefiPxe to Redfish System boot order.
6. Added support for DCPMM (AEP DIMM) sensor reading.
7. Added BMC firmware solution to program and store unique pre-programmed password.
8. Fixed problem of SEL showing error message after AOC-S3108 updates firmware.
9. Fixed multiple vulnerabilities with Supermicro BMC Virtual Media.
10. Corrected maximum allowed password length shown for /redfish/v1/AccountService MaxPasswordLength.
11. Fixed incorrect KEYPAD * and + key maps via IPMI iKVM console and KEYPAD on physical keyboard.
12. Fixed problem of IKVM/HTML5 being disabled.
13. Fixed issue with IPMI web formatting for system.
14. Fixed failure of STAC Redfish automation test and inability to access Redfish with RADIUS session after factory default.
15. 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.
16. Fixed failure of DPCMM sensor reading and corrected DPCMM thermal curve.
17. Fixed incompatibility of IPMI after update.
18. Fixed missing leading zero in minor version of /Managers/1/ FirmwareVersion.
19. Fixed problem of IPMI WebGUI system status showing as critical after CPU overheat de-assertion.
20. Added security fix on SSH-CLP.
21. Fixed ability to clear unique password using raw command 0x30 0x74 0x2.
22. Fixed ability to remove unique password set bit by IPMITool raw command.
23. 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.
24. Fixed failure of Java KVM to block Virtual Media section and show warning message when virtual media port is disabled.
25. Fixed inconsistent behavior for factory function.
26. Corrected message for Delete User Without Selecting Slot.
27. Corrected verification of the concatenate string of unique password.
28. Fixed failure of 2.2.0 (2019/02/20) (x86_64) test.

1.69 (4/10/2019)

1. Changed the naming for "Health Event Log" and "Maintenance Event Log" in Web UI.
2. Migrated IPMI Event Log to the URL "redfish/v1/Systems/1/LogServices" in Redfish and renamed the function name from "Event Log" to "System Management Log" in Redfish & Web UI.
3. Added patch for CVE-2019-6260 pantsdown.
4. Added new support for Uboot code version.
5. Added Hynix memory support for BMC.
6. Enabled clearing all system event logs without generating any log and dumping all the system event logs.
7. Added support for BMC Event Log in Redfish and renamed the function name from "System Event Log" to "BMC Event Log" in Web UI.
8. Added Onboard NVMe M.2 support for sensor reading.

9. Fixed issue of changed default passwords not working remotely if passwords contain !@#$%^&*.
10. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.
11. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.
12. Fixed problem of WebUI disappearing after selecting simplified Chinese language.
13. Fixed problem of DCMS license activation showing inconsistent results between IPMI firmware 1.52 and 1.61.
14. Fixed issue of "Save uncompleted" message appearing when changing time and saving it on IPMI Web.
15. Fixed failure of IPMI SOL.
16. Fixed multiple Web UI formatting issues.
17. Fixed malfunction of IPMI Web Date & Time Configuration.
18. Fixed issue of the system status not referencing PSU state when AC is lost.
19. Fixed problems of the sessions timing out after accessing system event log page and of BMC continuously rebooting.
20. Fixed malfunction of ISS compliance tool OOB function.
21. Fixed inability of AOC NIC Threshold to follow Thermal Guidelines.
22. Fixed failure of Redfish Automation tool check and SATC test and inability of Operator to clear Eventlog and Acknowledge.
23. Fixed problem of inconsistent return codes (200, 500, 503) occurring from BMC using ApacheBench.
24. Corrected Broadcom 3108 storage controller with BBU (battery unit) install on motherboard to generate one BBU de-assertion event upon every BMC system reboot.
25. Fixed inability to remove DNS server IPv6 address.
26. Fixed incorrect message appearing on iKVM/HTML5 page when disabling IKVM port.
27. Corrected AOC NIC sensor threshold.
28. Fixed problem of the system showing as normal when the power fails.
29. Fixed failure of timeout value for graceful shutdown feature.
30. Fixed failure to update SSL certificate file.
31. Fixed multiple Web UI formatting issues.
32. Corrected the sensor Qty of BMC.
33. Fixed mismatch of Redfish FullList Allowed Operation.
34. Fixed issue of a false report reporting a degraded controller when 10 HDDs are pulled out simultaneously.

1.55 (8/15/2018)

1. Revised Redfish firmware inventory (BIOS/BMC update).
2. Revised Redfish "Actions" for clearing event log.
3. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.
4. Added new Redfish features for downloading and uploading IPMI configuration.
5. Added adaptive temperature threshold in SDR for drives connected to 3108.
6. Enabled AC Power On Event log.
7. Added Redfish memory information feature.
8. Enabled update of 3108's firmware over BMC's Web page.
9. Added enable and disable options for 3108's JBOD mode over BMC's Web page and Redfish API "/redfish/v1/Systems/1/Storage/HA-RAID".
10. Added support for TaskService feature during BMC and Broadcom storage controller update in Redfish.
11. Added parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking.

12. Added support for Redfish SimpleUpdate for BMC and BIOS firmware.
13. Changed FirmwareInventory to SmcFirmwareInventory to prevent user confusion with Redfish standard definition.
14. Changed NodeManager to SmcNodeManager to prevent user confusion with Redfish standard definition.
15. Set the MAC address format to revert to "xx:xx:xx:xx:xx:xx" in order to prevent backward compatibility.
16. Added support for saving 3108 storage controller status event.
17. Added support for NIC/GPU Asset Information on Redfish.
18. Added hardware component status in Redfish/WebGUI.
19. Added support for TaskService feature during BIOS update in Redfish.
20. Added support for Node Manager feature in Redfish.
21. Added new feature for GUID/BoardID in Redfish.
22. Added new feature for event data extension in Redfish.
23. Added OEM event Description and Severity in Redfish/WebGUI.
24. Provided Event Acknowledgment for the events with Warning/Critical severity level.
25. 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).
26. Fixed failure of Redfish API test.
27. Set AC Power On Event log to be reported when BMC executes cold reboot.
28. Changed UTC zone time by SMCIPMITool commands.
29. Fixed problem of 200 being returned when PATCH PowerLimit reaches over 32767 in Redfish.
30. Fixed failure of NVMe temperature sensor reading to decrease.
31. Fixed problem of IPMI Web showing system warning after updating firmware to 1.54.
32. Fixed problem of ME firmware crashing when running SUM test.
33. Fixed inability of IPMICFG and IPMITool to change IPMIIPv6 mode.
34. Fixed OEM Event Alert.
35. Fixed inability to update 3108's firmware over BMC's Web page if physical/Logical device is on the card.
36. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.

1.46 (2/14/2018)

1. Improved multi-language content on the iKVM/HTML5 option menu and submenu.
2. Adjusted VBAT's low battery threshold from 2.7V to 2.6V for new battery-cell BR2032.
3. Removed the scrollbar and moved the buttons to the top.
4. Changed the color of low battery sensor state to yellow for hardware monitor failure.
5. Renamed Redfish APIs as follows: from /redfish/v1/UpdateService/SSL to /redfish/v1/UpdateService/SSLCert, and from /redfish/v1/UpdateService/SSL/Actions/SSL.Upload to /redfish/v1/UpdateService/SSLCert/Actions/SSLCert.Upload.
6. Changed the license requirement of WebGUI syslog from DCMS to OOB.
7. Added new advance system event log.
8. Added support for new thermal guide (SIM_TDG REV. 4.06) to correct fan PWM failure for SIS_TDG 4.06.
9. Added support for Redfish firmware inventory (BIOS/BMC update).
10. Added 204 and 405 http status code support for Redfish API so that 204 http status code responds to APIs that support PATCH and 405 http status code responds to APIs that do not support PATCH.

11. Nested ICANN domain in "OEM" part if there is data to show.

12. Added support for BBP2 feature.

13. Added Intel OTA feature to fix failure of SMC OOB TPM Provisioning via IPMI feature for customized provisioning table.

14. Fixed inability to change fan mode when default fan is in standard fan mode instead of PUE2 mode.

15. Fixed problem of IPMI web BIOS update not resetting the system.

16. Corrected Redfish APIs from /redfish/v1/Systems/1/Storage/HA-RAID/HA-RAID.[controller_num].Volume.[volume_num] to /redfish/v1/Systems/1/Storage/HA-RAID/Volumes/Controller.[controller_num].Volume.[volume_num] to correct Broadcom RAID volumes error.

17. Fixed problem of help message not matching template.

18. Fixed inability of SUM to run due to invalid DMI information.

19. Fixed failure of SUM GetBmcCfg.

20. Removed Upper Critical event log on CPU sensors to follow new thermal guide (SIM_TDG REV. 4.06).

21. Fixed inability of IPMI firmware 1.36 to flash BIOS with SUM.

22. Fixed inability to detect 2x U.2 NVME SSD in IPMI WebGUI, problem of fan speed control not working with firmware revision 01.35, problem of Standard Speed and Full Speed fan modes being the same for IPMI 1.35, and failure of fan PWM for SIS_TDG 4.06.

23. Fixed problem of IPMI WebGUI not showing NVMe SSD on Server Health.

24. Fixed problem of server IP being False when disabled.

25. Fixed problem of fan duty fluctuating when multiple AVAGO 3108 AOCs exist.

26. Fixed ability to enable "LDAP" and "Active Directory" at the same time.

27. Fixed IPMI's mismatching NVMe slot IDs in the pop up windows for 12 NVMe drives connected to second enclosure.

28. Fixed problem of IPMI Sensor Reading disappearing when resetting BMC AOC-SAS (LSI 3108).

29. Fixed issue with DDNS enable/disable functionality.

30. Fixed inability of DCMS mods to enable Syslog function and ability to read Syslog without OOB key.

31. Fixed problem of unexpected system event logs generating every 2 minutes if "Syslog" is enabled.

32. Fixed problem of NTP server shifting in IPMi v1.22 after IPMI is cold reset, switching AC off or on, or flashing IPMI.

33. Fixed problem of different values appearing in SD5 and WebGUI for PSU fan RPM.

34. Fixed problem of system hanging at POST stage, IERR occurring, and some affiliated HDDs within 3108 being lost when systems installed with 3108 AOC run cburn ON/OFF test.

35. Fixed problem of IPMI SDR showing two "AOC_NIC_Temp" readings when SIOM AOC-MTG-i4T is installed.

36. Fixed incorrect IPMI VBAT detection.

37. Fixed incorrect power readings on "power consumption" page.