

# IPMI Firmware Release Notes Form

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<b>Product Name</b>	<b>X11SPH-nCT(P)F</b>
<b>Release Version</b>	<b>1.73.14</b>
<b>Build Date</b>	<b>11/9/2021</b>
<b>Previous Version</b>	<b>1.73.06</b>
<b>Update Category</b>	<b>Critical</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>None</b>
<b>Enhancements</b>	<b>1. Added support for PLDM sensor reading on AOC NIC cards.</b>
<b>New features</b>	<b>1. Enabled AOC_NIC_TEMP IPMI sensor during AC on/off test.</b>
<b>Fixes</b>	<b>1. Removed ability to create anonymous account or null value. 2. Fixed buffer overflow in ipmi_lan ASF protocol. 3. Fixed resolv.conf won't be deleted when BMC reset to factory default settings. 4. Removed ability to SSH using weak MAC algorithms. 5. Fixed multiple XSS on jQuery versions between 1.2 and 3.5.0. 6. Fixed failure to save domain name on AD page. 7. Fixed failure to show PSU sensor reading under WebGUI. 8. Fixed failure to delete AD group from web.</b>

	<b>9. Fixed failure of failed alert to appear in 'Trap Receiver' and malfunction of SNMP alert.</b>
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**Release Notes from Previous Release(s)**

**1.73.06 (11/20/2020)**

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 failure of SUM 2.5.0 (2020/04/17) to execute Get GpuInfo command function.
17. Fixed malfunction of fan control with AOVM2.
18. Fixed failure of Linux OS to reboot due to BMC firmware.
19. Fixed failure of IPMI ECO Automation caused by KCS error.
20. 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.
21. Fixed failure of installed NVMe SSDs to display in latest IPMI firmware Rev. 1.73.01 (3/16).
22. Fixed failure of OOB BIOS update function via SUM 2.5.0.
23. Fixed missing event log for yellow icon in System Health.
24. Fixed problem of the Storage Monitoring page appearing without storage card present.
25. Fixed failure of IPMI ECO Robot test.
26. Corrected license for HTML5 VM.
27. Fixed inconsistency between X11 and X10 firmware for long hostname string.
28. Fixed failure of SUM test.
29. Fixed problem of SMASH only taking up to 403 characters before disconnecting.
30. Fixed missing IPMI sensor during AC on/off test.
31. Fixed hardware information.

**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

on "AOC-SLG3-2M2".

### **1.71.17 (12/30/2019)**

1. 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. Fixed missing new load factory default options for IPMICFG/SMCIPMITool/Redfish for IPMI firmware 1.71.7.
9. Corrected verification of the concatenate string of unique password.

### **1.71.6 (8/30/2019)**

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. Fixed problem of SEL showing error message after AOC-S3108 updates firmware.
8. Fixed multiple vulnerabilities with Supermicro BMC Virtual Media.
9. Corrected maximum allowed password length shown for /redfish/v1/AccountService MaxPasswordLength.
10. Fixed incorrect KEYPAD \* and + key maps via IPMI iKVM console and KEYPAD on physical keyboard.
11. Fixed problem of IKVM/HTML5 being disabled.
12. Fixed issue with IPMI web formatting for system.
13. Fixed failure of STAC Redfish automation test and inability to access Redfish with RADIUS session after factory default.
14. 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.*

- 15. Fixed failure of DPCMM sensor reading and corrected DPCMM thermal curve.*
- 16. Fixed incompatibility of IPMI after update.*
- 17. Fixed missing leading zero in minor version of /Managers/1/ FirmwareVersion.*
- 18. Fixed problem of IPMI WebGUI system status showing as critical after CPU overheat de-assertion.*
- 19. Added security fix on SSH-CLP.*

### **1.69 (4/10/2019)**

- 1. Added patch for CVE-2019-6260 pantsdown.*
- 2. Changed the naming for Health Event Log & Maintenance Event Log in Web UI.*
- 3. 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.*
- 4. Added support for new 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. Changed default password to !@#\$%^&\* after old or new password fails remotely.*
- 9. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.*
- 10. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.*
- 11. Fixed problem of WebUI disappearing after selecting simplified Chinese language.*
- 12. Fixed problem of DCMS license activation showing inconsistent results between IPMI firmware 1.52 and 1.61.*
- 13. Fixed issue of "Save uncompleted" message appearing when changing time and saving it on IPMI Web.*
- 14. Fixed failure of IPMI SOL.*
- 15. Fixed multiple Web UI formatting issues.*
- 16. Fixed malfunction of IPMI Web Date & Time Configuration.*
- 17. Fixed problems of the sessions timing out after accessing system event log page and of BMC continuously rebooting.*
- 18. Fixed malfunction of OOB function of ISS compliance tool.*
- 19. Fixed problem of AOC NIC threshold not adhering to thermal guideline.*
- 20. Fixed failure of Redfish Automation tool check and SATC test.*

21. Fixed problem of inconsistent return codes (200, 500, 503) occurring from BMC using ApacheBench.
22. 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.
23. Fixed inability to remove DNS server IPv6 address.
24. Fixed failure of NVMe Eject and insert Event log.
25. Fixed incorrect message appearing on iKVM/HTML5 page when disabling iKVM port.
26. Fixed problem with AOC NIC sensor threshold display.
27. Fixed problem of the system showing as normal when the power fails.
28. Fixed failure to update SSL certificate file.

### **1.55 (8/15/2018)**

1. Improved multi-language content on the iKVM/HTML5 option menu and submenu.
2. Added new "Nuvoton Firmware Update" UI.
3. Adjusted VBAT's low battery threshold from 2.7V to 2.6V for new battery-cell BR2032.
4. Removed the scrollbar and moved the buttons to the top.
5. 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).
6. Added support for BBP2 feature.
7. Added Intel OTA feature to fix failure of SMC OOB TPM Provisioning via IPMI feature for customized provisioning table.
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. Changed the color of low battery sensor state to yellow for hardware monitor failure.
11. Revised Redfish firmware inventory (BIOS/BMC update).
12. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.
13. Added new Redfish features for downloading and uploading IPMI configuration.
14. Revised Redfish "Actions" for clearing event log.
15. Added adaptive temperature threshold in SDR for drives connected to 3108.
16. Enabled AC Power On Event log.
17. Added Redfish memory information feature.
18. Enabled update of 3108's firmware over BMC's Web page.
19. 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"`.
20. Added support for TaskService feature during BMC and Broadcom storage controller update in Redfish.

21. Added parameter (*SkipCheckingME*) for BIOS update in Redfish to skip ME checking.
22. Added support for Redfish SimpleUpdate for BMC and BIOS firmware.
23. Changed *FirmwareInventory* to *SmcFirmwareInventory* to prevent user confusion with Redfish standard definition.
24. Changed *NodeManager* to *SmcNodeManager* to prevent user confusion with Redfish standard definition.
25. Set the MAC address format to revert to "xx:xx:xx:xx:xx:xx" in order to prevent backward compatibility.
26. Added support for saving 3108 storage controller status event.
27. Added support for NIC/GPU Asset Information on Redfish.
28. Added hardware component status in Redfish/WebGUI.
29. Added support for TaskService feature during BIOS update in Redfish.
30. Added support for Node Manager feature in Redfish.
31. Added new feature for GUID/BoardID in Redfish.
32. Added new feature for event data extension in Redfish.
33. Added OEM event Description and Severity in Redfish/WebGUI.
34. Provided Event Acknowledgment for the events with Warning/Critical severity level.
35. Fixed problem of IPMI SDR showing two "AOC\_NIC\_Temp" readings when SIOM AOC-MTG-i4T is installed.
36. Fixed failure to mount ISO when the previous ISO link string is longer than the new one.
37. Fixed inability to change fan mode when default fan is in standard fan mode instead of PUE2 mode.
38. Fixed problem of IPMI web BIOS update not resetting the system.
39. 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.
40. Fixed problem of IPMI Eject feature in Intel P4800 not responding.
41. Fixed problem of help message not matching template.
42. Fixed inability of SUM to run due to invalid DMI information.
43. Fixed failure of SUM GetBmcCfg.
44. Removed Upper Critical event log on CPU sensors to follow new thermal guide (SIM\_TDG REV. 4.06).
45. Fixed inability of IPMI firmware 1.36 to flash BIOS with SUM.
46. 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.
47. Fixed problem of IPMI WebGUI not showing NVMe SSD on Server Health.

48. Fixed problem of server IP being False when disabled.
49. Fixed problem of fan duty fluctuating when multiple AVAGO 3108 AOCs exist.
50. Fixed ability to enable "LDAP" and "Active Directory" at the same time.
51. Fixed IPMI's mismatching NVMe slot IDs in the pop up windows for 12 NVMe drives connected to second enclosure.
52. Fixed problem of IPMI Sensor Reading disappearing when resetting BMC AOC-SAS (LSI 3108).
53. Fixed issue with DDNS enable/disable functionality.
54. Fixed failure of Redfish API test.
55. Set AC Power On Event log to be reported when BMC executes cold reboot.
56. Changed UTC zone time by SMCIPMITool commands.
57. Fixed incorrect power readings on "power consumption" page.
58. Fixed problem of 200 being returned when PATCH PowerLimit reaches over 32767 in Redfish.
59. Fixed problem of NVMe temperature sensor reading decreasing.
60. Fixed problem of IPMI Web showing system warning after updating firmware to 1.54.
61. Fixed problem of ME firmware crashing when running SUM test.
62. Fixed inability of IPMICFG and IPMITool to change IPMIIPv6 mode.
63. Fixed OEM Event Alert.
64. Fixed inability to update 3108's firmware over BMC's Web page if Logical device is on the card.
65. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.