

## BMC Firmware Release Notes

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<b>Product Name</b>	<b>X11SPW-(C)TF</b>
<b>Release Version</b>	<b>1.74.13</b>
<b>Build Date</b>	<b>8/2/23</b>
<b>Previous Version</b>	<b>1.74.11</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>None</b>
<b>New features</b>	<b>N/A</b>
<b>Fixes</b>	<b>1. IPMI configuration backup file remote command execution 2. Security Fixes: CVE-2023-40287, CVE-2023-40288, CVE-2023-40286, CVE-2023-33413</b>

## **Release Notes from Previous Release(s)**

### **1.74.11 (10/27/22)**

1. *Optimized the execution time on the VRM utility.*
2. *Running the VRM tool failed without battery Copy Project Issue Link.*
3. *Virtual Media on the HTML5 iKVM console is nonfunctional.*
4. *VRM utilities can be used on X11QPH+ when the battery is INSTALLED.*
5. *Disconnecting problems when switching from 1G switch to 100M switch. (This is a work-around solution)*
6. *Blocked the I2C master write and read command for VRM channel (channel 1).*

### **1.74.02 (02/25/22)**

1. *Support for SMC 39xx, 38xx storage cards sensor reading.*
2. *Supports the new Realtek PHY RTL8211FD-VX-CG driver.*
3. *Upgraded to version 1.74.02.*
4. *Disabled creation and activation of a null user and password.*
5. *Fixed problem of BMC crashing and restart being forced due to malicious data transmission.*
6. *Fixed inability to reset resolv.conf file after BMC is restored to factory default settings.*
7. *Removed "SSH weak MAC Algorithms Enabled."*
8. *Fixed (jQuery 1.2 < 3.5.0 Multiple XSS) cross scripting vulnerability.*
9. *Fixed the inability 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.*

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

1. *Changed Storage WebUI.*
2. *Added NVIDIA GPU monitoring and Network page info on UI.*
3. *Added support for device auto-discovery within a rack for RSD.*
4. *Added support for Redfish 1.8 API.*
5. *Added support for HTML5 VM, BMC UI, and Redfish system component health status, and changed remote console UI.*
6. *Added support for IPv4 and IPv6 stack selection.*
7. *Added support for BMC KCS interface security solution.*
8. *Added support for WebUI button requirements.*
9. *Added support for AOC NVMe M.2 sensor reading.*
10. *Added support for IPv6 and FQDN address configuration.*
11. *Added support for SNMPv3 Trap and new MIBs feature.*
12. *Added support for HII in Redfish.*
13. *Fixed failure to set LDAP Server Address through SMCIPMITool.*
14. *Fixed failure of SUM 2.5.0 (2020/04/17) to execute Get GpuInfo command function.*

15. Fixed malfunction of fan control with AOCM2.
16. Fixed failure of Linux OS to reboot due to BMC firmware.
17. Fixed failure of IPMI ECO Automation caused by KCS error.
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 failure of OOB BIOS update function via SUM 2.5.0.
21. Fixed missing event log for yellow icon in System Health.
22. Fixed problem of the Storage Monitoring page appearing without storage card present.
23. Fixed failure of IPMI ECO Robot test.
24. Corrected license for HTML5 VM.
25. Fixed inconsistency between X11 and X10 firmware for long hostname string.
26. Fixed failure of SUM test.
27. Fixed problem of SMASH only taking up to 403 characters before disconnecting.
28. Fixed missing IPMI sensor during AC on/off test.
29. 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 inconsistency of IPMI "Create Virtual Drive" option across different web browsers and failure of Web GUI IPMI to display Controller information with Internet Explorer 11.
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.

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

1. Revised Redfish firmware inventory (BIOS/BMC update).
2. Revised Redfish "Actions" for clearing event log.
3. Changed UTC zone time by SMCIPMITool commands.
4. Changed the naming of "FirmwaveInventory" to "SmcFirmwaveInventory" to prevent user confusion with redfish standard define.
5. Set the MAC address format to revert to "xx:xx:xx:xx:xx:xx" in order to prevent backward compatibility.
6. 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.
7. Changed the naming for "Health Event Log" and "Maintenance Event Log" in Web UI.
8. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.
9. Added new Redfish features for downloading and uploading IPMI configuration.
10. Added adaptive temperature threshold in SDR for drives connected to 3108.
11. Enabled AC Power On Event log.
12. Added Redfish Memory Information feature.
13. Enabled update of 3108's firmware over BMC's Web page.
14. 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".
15. 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).
16. Added support for TaskService feature during BMC and Broadcom storage controller update in Redfish.
17. Added parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking.
18. Added support for Redfish SimpleUpdate for BMC and BIOS firmware.

19. Added support for saving 3108 storage controller status event.
20. Added hardware component status in Redfish/WebGUI.
21. Added support for TaskService feature during BIOS update in Redfish.
22. Added new feature for GUID/BoardID in Redfish.
23. Added new feature for event data extension in Redfish.
24. Added OEM event Description and Severity in Redfish/WebGUI.
25. Added OEM Event Alert.
26. Provided Event Acknowledgment for the events with Warning/Critical severity level.
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 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).
29. Enabled clearing all system event logs without generating any log and dumping all the system event logs.
30. Added Hynix memory support for BMC.
31. Added new support for Uboot code version.
32. Added patch for CVE-2019-6260 pantsdown.
33. Added support for T4 GPU sensor reading.
34. Fixed failure of Redfish Automation and Redfish API test.
35. Fixed AC Power On Event log to be reported when BMC executes cold reboot.
36. Fixed inability to update 3108's firmware over BMC's Web page if Physical/Logical device is on the card.
37. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.
38. Fixed failure of NVMe temperature sensor reading to decrease.
39. Fixed problem of IPMI Web showing system warning after firmware is updated to 1.54.7.
40. Fixed inability of IPMICFG and IPMITool to change IPMIIPv6 mode.
41. Fixed problem of ME firmware crashing when running SUM test.
42. Fixed problem of inconsistent return codes (200, 500, 503) occurring from BMC using ApacheBench.
43. Corrected Broadcom 3108 storage controller with BBU (battery unit) install on motherboard to generate one BBU de-assertion event upon every BMC system reboot.
44. Fixed inability to open 4th iKVM Session via Redfish.
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. Corrected AOC NIC sensor threshold.
49. Fixed problem of the system showing as normal when the power fails.
50. Fixed issue of System Health Status not matching sensors health status.
51. Fixed failure to update SSL certificate file.
52. Fixed inability of AOC NIC Threshold to follow Thermal Guidelines.
53. Fixed failure of Redfish Tool check and SATC test and inability of Operator to clear Eventlog and Acknowledge.
54. Fixed failure of IPMI SOL.
55. Fixed multiple Web UI formatting issues.
56. Fixed malfunction of IPMI Web Date & Time Configuration.
57. Fixed issue of the system status not referencing PSU state when AC is lost.
58. Fixed problems of the sessions timing out after accessing system event log page and of BMC continuously rebooting.

59. Fixed issue of "Save uncompleted" message appearing when changing time and saving it on IPMI Web.
60. Fixed missing sensor reading for AOC-SLG3-8E2P in IPMI.
61. Fixed problem of WebUI disappearing after selecting simplified Chinese language.
62. Fixed problem of DCMS license activation showing inconsistent results between IPMI firmware 1.52 and 1.61.
63. Patched CVE-2019-6260 pantsdown.
64. Fixed issue of changed default passwords not working remotely if passwords contain !@#%&^\*.
65. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.
66. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.
67. Fixed issue with WebUI formatting.
68. Corrected the sensor Qty of BMC.
69. Fixed mismatch of Redfish FullList Allowed Operation.
70. Fixed issue of a false report reporting a degraded controller when 10 HDDs are pulled out simultaneously.

#### **1.46 (2/14/2018)**

1. Added new advance system event log.
2. Added support for BBP2 feature.
3. Fixed inability to change fan mode when default fan is in standard fan mode instead of PUE2 mode.
4. Fixed problem of IPMI web BIOS update not resetting the system.
5. Fixed incorrect power readings on "power consumption" page.
6. Fixed problem of IPMI SDR showing two "AOC\_NIC\_Temp" readings when SIOM AOC-MTG-i4T is installed.

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Product Manager

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Date