

IPMI Firmware Release Notes

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| Product Name | X11SPi-TF |
| Release Version | 1.74.14 |
| Build Date | 11/30/2023 |
| Previous Version | 1.74.13 |
| Update Category | Recommended |
| Dependencies | None |
| Important Notes | None |
| Enhancements | None |
| New features | N/A |
| Fixes | 1. Fixed failure to change BMC LAN configuration using SUM. |

1.74.13 (8/2/2023)

1. *IPMI configuration backup file remote command execution.*
2. *Security Fixes: CVE-2023-40287, CVE-2023-40288, CVE-2023-40286, and CVE-2023-33413.*

1.74.11 (10/27/2022)

1. *Optimized the execution time of the VRM utility.*
 2. *Blocked I2C master w/r command for VRM channel (channel 1).*
- Fixed the following issues:*
3. *Virtual media on the HTML5 iKVM console is inoperable.*
 4. *When a battery is installed, VRM utilities can be used on the X11QPH+.*
 5. *When switching from a 1G switch to a 100M switch, there are disconnections.*

1.74.04 (4/27/2022)

1. *1.74.01 is obsolete.*
2. *Added support for new Realtek PHY RTL8211FD-VX-CG driver.*
3. *Added support for 39xx, 38xx storage card sensor reading.*

1.73.14 (11/09/2021)

1. *Disabled creation and activation of a null user and password.*
2. *Fixed problem of BMC crashing and restart being forced due to malicious data transmission.*
3. *Fixed inability to reset resolv.conf file after BMC is restored 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. *Enabled saving 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 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 AOCM2.
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. 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 support for new Uboot code version.
2. Added patch for CVE-2019-6260 pantsdown.
3. Added onboard support for NVMe M.2 sensor reading.
4. Patched CVE-2019-6260 pantsdown.
5. Fixed issue of changed default passwords not working remotely if passwords contain !@#%\$^&*.
6. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.
7. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.
8. Fixed issue with WebUI formatting.
9. Corrected the sensor Qty of BMC.
10. Fixed mismatch of Redfish FullList Allowed Operation.
11. Fixed issue of false report of 10 HDDs that are pulled out simultaneously to be reported as degraded controller.

1.38 (11/10/2017)

1. Improved the help message descriptions to follow Help Menu Suggestions v1.8.
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. Fixed failure of SUM 2.0.0 (2017/03/03) test.
8. Added a workaround to solve issue of some motherboards/nodes taking 10+ minutes to boot to PXE after AC cycle.
9. Added support for X11SPi-TF.
10. Added support for new thermal guide (SIM_TDG REV. 4.06) to correct fan PWM failure for SIS_TDG 4.06.
11. Added support for Redfish firmware inventory (BIOS/BMC update).
12. Patched an empty JSON payload "{}" so that a 204 http status code responds to APIs that support PATCH, while a 405 http status code responds to APIs that do not support PATCH.
13. Nested ICANN domain in "OEM" part if there is data to show.
14. Added Redfish support for new APIs.
15. Fixed problem of IPMI Web Session value not loading the default after IPMI is set to factory default.
16. Fixed problem of Help message not matching template.
17. Fixed inability of SUM to run due to invalid DMI information.
18. Fixed failure of SUM GetBmcCfg.
19. Removed Upper Critical event log on CPU sensors to follow new thermal guide (SIM_TDG REV. 4.06).
20. Fixed inability of IPMI firmware 1.36 to flash BIOS with SUM.
21. 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.
22. Fixed problem of IPMI WebGUI not showing NVMe SSD on Server Health.
23. Fixed problem of server IP being False when disabled.
24. Fixed ability to enable "LDAP" and "Active Directory" at the same time.
25. Fixed IPMI's mismatching NVMe slot IDs in the pop up windows for second 12 NVMe drives.
26. Fixed problem of system fan curve not following X11 GPU System Thermal Design Guide Rev Draft B.
27. Fixed issue with DDNS enable/disable functionality.
28. Fixed inability of DCMS mods to enable Syslog function and ability to read Syslog without OOB key.
29. Fixed problem of unexpected system event logs generating every 2 minutes if "Syslog" is enabled.
30. Fixed problem of NTP server shifting in IPMI v1.22 after IPMI is cold reset, switching AC off or on, or flashing IPMI.
31. Fixed problem of different values appearing in SD5 and WebGUI for PSU fan RPM.
32. Fixed failure to update LCMC firmware via IPMI WebGUI and SMCIPMITool.
33. Fixed problems of abnormal CPU sensor behavior after CPU overheats.
34. Fixed problem of empty assertion events being recorded in IPMI SEL when SMART error drives are detected.
35. Fixed failures to change IPMI LAN mode and of SUM ATT test.
36. Fixed problem of some digit keys not working when French keyboard layout is selected.
37. Fixed abnormal Session ID for iKVM User List.

38. *Fixed instability of iKVM.*
39. *Fixed Redfish functionality.*
40. *Fixed problem of "Out of Spec Definition (0x07, 0x08) - Assertion" events being recorded in IPMI SEL when installing RHEL7.3.*
41. *Fixed problem of missing NVMe and MB_NIC temperature readings on IPMI version 1.15 and inability of IPMI firmware 1.15 to see NVMe SSD tab under IPMI WebGUI.*
42. *Fixed the fan RPM fluctuating for NIC devices.*
43. *Fixed instability of VBAT Sensor reading.*
44. *Fixed inability to detect NVMe device on backplane NVMe ports #1, #2, and #3.*
45. *Fixed inability of Web IPMI to see NVMe device management function.*
46. *Fixed problem of MAC changing to incorrect value of ff:ff:ff:ff:ff:ff on IPMI web after BIOS/IPMI is updated.*
47. *Fixed missing add-on card sensor reading in IPMI Web.*
48. *Fixed failures of Fan Pulse-Width-Modulation Measurement and IPMI Hardware Monitor Check.*
49. *Fixed incorrect IPMI sensor readings.*