IPMI Firmware Release Notes Form

Product Name	**X11SRi-IF**
Release Version	**3.77.08**
Build Date	**8/4/2023**
Previous Version	**3.77.02**
Update Category	**Recommended**
Dependencies	**None**
Important Notes	**None**
Enhancements	**None**
New features	**N/A**
Fixes	1. **JAVA KVM did not work when logging into operator account.** 2. **Get device ID command would NOT report production/debug sign flag at 0x6 0x1 cmd.** 3. **Security Fixes: CVE-2023-40287, CVE-2023-40288, CVE-2023-40286, CVE-2023-33413.**

3.77.02 (10/28/2022)

1. Added storelib 7.17 and removed gdbserver from the file system.
2. Enabled SAS3908 to be detected by the current X11 BMC.
3. Updated Java signing key.
4. Added a feature to the command 0x30 0x68 0xE0 0x00 to return the correct value during and after the POST.
5. Synchronized the VRM protection with the SW team.
6. Added support for AOC-MTG-i4T.
7. Fixed the following:
   a. One failure item on the SMSTC IPMI ECO automation test.
   b. IPMI ECO automation test failed.
   c. Test case 4005 failed in the automation tests.
8. Modified the Main Page redirect issue.
9. Fixed the BMC FW UFFN information does not match the BMC FW filename.
10. Fixed a bmccfg comparison error in the SUMECO test cases 263 and 374.
11. Fixed NVMe information showing in the IPMIWebGUI.
12. Removed the static properties vector.
13. Disallowed deleting a non-existent user.
14. Fixed SMCIPMITool to show error message when trying to set NTP server to "localhost."
15. Fixed the BMC user information to display normally in Firefox.
16. Fixed the "iKVM Reset" message to match the expected string.
17. Fixed the search sensor name among standard sensors before OEM sensors.
18. Fixed the Time Zone to be cleared when the NTP service is disabled.
19. Fixed the web HDD temperature sensor.
20. Fixed the following issues:
    a. User accounts can be created using full-width characters.
    b. Pop up message incorrect when "Password" do not match.
    c. After clicking "IKVM Reset" a pop-up window shows up to confirm the reset.
21. Removed weak encryption algorithms from SSH2.
22. Prevent sharing host VM from the https:// URL via WebUI command.
23. When counting index, keep the "accept all" rule in the IPv6 table.
24. Fixed the FRU chassis type 0F being listed as All-in-One on the Web UI, but Space-saving in SMCIPMITool.
25. Fixed the following issues:
    a. Fixed IPMI automation test failure.
    b. Fixed the SUM test case 251 and 440 failure because SUM does not determine X11DPL-i lock.
26. Fixed the BMC "Firmware Revision" format being inconsistent with the SMCIPMITool.
27. Created an IP access control rule with 32 bits mask and made sure the rule contains the mask on the web.
28. Added sensor for AOC-STG-b2T.
29. Added support for Ampere A100 80G PCIe.
30. Fixed click jacking potential at 3.76.35.
31. Fixed an index error in the filter rule POST command.
32. Fixed the IPMI Web GUI not showing the NVMe information.
33. Fixed inconsistent messages between the X11 SEL specification and the BMC Web.
34. Fixed SATC with Redfish API 2019.03.28.
35. Fixed SATC full list 2019/03/28 failed test cases.

36. Updated Copyright © "year" to 2022 on web GUI.
37. Disallowed anonymous account or null value to be created on the HW BMC.
38. Fixed default value of "User Status" to be "Enable" when a manager adds user account on Web GUI.
39. Fixed the following:
    a. DoS BMC with incorrect IPMI operate packet.
    b. Buffer overflow in ipmi_lan ASF protocol.
    c. DoS BMC with incorrect IPMI operate packet (4).
    d. Anonymous account or null value can be created on HW IPMI.
    e. Weak MAC - Disable weak algorithm of HMAC-SHA1-96.
    f. JQuery multiple XSS attacks between version 1.2 and 3.5.0.
40. Fixed the following:
    a. Swapped log service related source code in Redfish managers and systems.
    b. Changed "ID" to "Id" to meet SMC IPMI standard.
    c. Fixed IPMI update issue when using sum.
41. Disabled weak MAC algorithms.
42. Disabled weak cipher suites from the ports the following ports: tcp/443, tcp/623 and tcp/5900.
43. Fixed IPMI to show the relevant Micron 7400 NVMe drive information.
44. Fixed some items causing SSM failure.
45. Fixed Slots 0, 19, and 31 Temp Critical/Warning Assertion/Deassertion in the IPMI Health Event Log under Windows Stress Test.
46. Fixed the system alert always showing a red exclamation mark without any error in the Web GUI.
47. Fixed the SMTP API returning 503.
48. Required a license in order to mount the CD-ROM image by http or https host.
49. Read every CPU Package Identifier data to check if the IERR is real.
50. Fixed the failure to accept a valid email address for Alert.
51. Fixed some API cannot get information.
52. Fixed the following issues:
    a. Incorrect popup message when saving invalid NTP Server.
    b. Active Directory server can be set with illegal User Domain Name and Domain Controller Server Address values.
53. Fixed the refresh button re-mounting unmounted floppy disk.
54. Fixed the ChangeBmcCfg timing out due to BMC driver in-output failed in FreeBSD12.
55. Fixed the version in the "9.58beta REDFISH ? /redfish/v1/AccountService/ contains incorrect @odata.type" API.
56. Fixed the SSG-6049P-HDFS-03-VB002 AOC SAS temperature sensor.
57. Fixed the System Power Down PSU Status Show Failure.
58. Fixed the BMC web GUI to show all AOC MAC (AOC-AH25G-m2S2TM).
59. Enabled the 'Refresh Preview Image' to display from the 'Remote Console Preview' window.
60. Fixed the PCIe Gen version in PCIe Devices instance API.
61. Fixed the Health in "Unknown Status" when a device is plugged.
62. Fixed the SMC IPMI Tool to enable "ddns" and "smtp" function.

3.76.34 (5/19/2021)

1. Added support for PCIe Devices, PCIe Slots, and PCIe Functions APIs, and for providing events via Redfish.
2. Changed PSU Event Behavior.
3. Added 30 68 e0 get/set post status and 30 68 f9 get service status cmd.

4. *Fixed missing event log on IPMI Web and malfunction of troubleshooting when DCI triggers IERR error.*
5. *Fixed wording on Virtual Media Page on IPMI Web.*
6. *Fixed the PCIe gen. version in Redfish API.*
7. *Fixed problem of BMC System Health icon appearing as red when using with 3108 without BBU.*
8. *Fixed problem of Floppy Upload function accepting any file that ends in .ima or .img.*
9. *Fixed problem of SDR returning after BMC reboot once delete SDR command is executed by tool.*
10. *Added support for file import/export and bmcinfo via Redfish for ssmOverRedfish tool.*
11. *Fixed problem of X11DPL-i BMC Web crashing during WebGUI BIOS upload stage.*
12. *Fixed inability to get /restapi/smci/BmcInfo.*
13. *Fixed failure to get volume information via Redfish volume API.*
14. *Fixed failure to get volume information (MRVL) via Redfish volume API.*
15. *Fixed problem of Network Privilege on IPMI changing to "No Access" when the user is deleted via tool.*
16. *Fixed problem of WebGUI showing special character username's hex ASCII code after modification.*
17. *Fixed mismatch of configuration.*

3.76.28 (1/8/2021)

1. *Added support for standby FAN power enabling from BMC.*
2. *Added support for the NVidia T4 GPU card, the NVidia A10 GPU card, and the NVidia A40 GPU card.*
3. *Added support for SNMPv3 new OIDs and improved SNMPv1 trap.*
4. *Added support for IPv6/FQDN for LDAP/Radius/AD/Alert/VirtualMedia/SMTP/syslog/NTP/DDNS server.*
5. *Fixed problem of undefined completion code FFh occurring with GetGpuInfo.*
6. *Patched response 302 status code on Redfish.*
7. *Fixed failure of web session to time out on system information page.*
8. *Fixed failure of first attempt to select firmware to upload.*
9. *Fixed problem of system showing as normal when IPMI sensor fails.*
10. *Fixed failure of web server to completely close.*
11. *Fixed problem of user name allowing length of fewer than 4 characters.*
12. *Fixed problem of IPMI session timing out during the BIOS update.*
13. *Fixed failure of IPv6 settings to sync between BIOS and IPMI.*
14. *Fixed problem of Modify CT with Notebook (0A) through SMCIPMITOOL displaying as undefined on WebGUI.*
15. *Fixed problem of undefined alert occurring when opening iKVM/HTML5 after closing the port.*
16. *Fixed failure of Redfish automation on 3 test cases regarding active directory.*
17. *Fixed issue with AIOM thermal reading.*
18. *Fixed failure to read PCIe through raw 0x30 0xE6.*
19. *Fixed failure of SUM test.*
20. *Fixed problem of "Event Log" field on SEL GUI screen overlapping with "Keyword Search" field on Health Event Log page.*
21. *Fixed mismatch of '30 6a SUM' and 'ipmitool' on DCMS/OOB license of X11DGQ-P.*
22. *Fixed problems of chassis intrusion reading showing as N/A and power down failing during cburn DC cycle stress.*
23. *Fixed inability to get NVMe temperature from Toshiba CD5 3.84TB NVMe.*
24. *Fixed problem of all sensor readings displaying as N/A when the AOC-S40G-i2Q card is inserted.*

3.76.22 (9/4/2020)

1. Synced severity and description of SW team SELs.
2. Fixed failure to install OS when mounting large ISO image (over than 5GB) through HTTP.
3. Updated Jarsigner certificate.
4. Set copyright to 2020.
5. Added "Redfish Managers.Network Protocol" SSDP catalog.
6. Set SSDP to disabled by default.
7. Removed limitation to prevent IPv6 static router prefix length input of 0.
8. Blocked invalid input for Configuration Web.
9. Added support for inband update of firmware event by OEM cmd 0x30 0xc4.
10. Added support for SSDP function.
11. Added support for new sensor health status.
12. Added support for HTML5 VM.
13. Added CSRF prevention feature.
14. Fixed problem of SSL Certificate update page turning to a white page or 500 internal server error.
15. Fixed problem of server certificate and private key clearing when user tries to update new SSL certificate and private key.
16. Corrected BMC web display of UPI error message.
17. Fixed inability to run HTML5 after updating to 3.76.01 from 3.68 for X11.
18. Corrected status of share LAN shown by IPMI.
19. Fixed inability to save DDNS settings on web pages in Japanese/SC languages.
20. Corrected typo SLOM to SIOM.
21. Fixed problem of the "Model" field showing vendor name plus marketing name in Redfish for GPU devices.
22. Corrected health event log severity and description.
23. Fixed failure to release IKVM resource.
24. Fixed inability of some nodes to detect BMC IP Gateway at SYS-F619P2-FT-DTP1-TS29T (MBD: X11DPFF-SN).
25. Fixed inability of existing user to modify username on web page.
26. Fixed malfunction of WebGUI display when hostname is too long.
27. Fixed problem of SNMP losing some sensor information.
28. Fixed failure to update BIOS built in 2020.
29. Fixed failure to restore https port when restoring IPMI configuration.
30. Fixed mismatch of IPMI WebUI Fan Mode Help description.
31. Fixed problem of Redfish returning 500 on RAID mode when getting Disk.Bay.
32. Fixed some account service items.
33. Fixed problem of NVMe and RAIDIntrate status always showing as warning.
34. Fixed inability of Redfish to get permission via AD user while enabling AD via SSL setting.
35. Fixed failure of SATC Redfish API test case for BIOS upload.
36. Fixed failure of Get Managers iKVM URI And Check when running Redfish Automation Tool.
37. Fixed inability to save SSDP setting.
38. Fixed problem of IPMI execution exception occurring when running IPMI Automation.
39. Added CSRF token check mechanism into firmware upload CGI firmware_upload.cgi and fixed failure of syslog config setting due to HTTP server malfunction after disabling HTTP.
40. Fixed failure to use SUM tool to update BMC firmware.
41. Fixed inability to apply HTTP/HTTPs port number after restoring IPMI.
42. Removed sensitive parameters on main menu pages, specifically Remote Console Preview.
43. Fixed issue with Visa security for maintenance web pages.
44. Fixed issue with alert and AD web page.

45. *Fixed problem of user being modified if given invalid input and problems when deleting an active directory.*
46. *Fixed problem of AOC NIC Temp sensor reading showing as n/a.*
47. *Fixed failure to update BIOS/BMC through SMCIPMITool/SUM.*
48. *Fixed Stunnel port response.*

3.76.06 (1/3/2020)

1. *Improved the dump speed of system troubleshooting.*
2. *Fixed inability to add IPv6 address.*
3. *Fixed absence of event if NTP is enabled and NTP server is not accessed.*
4. *Set System troubleshooting to support download of Version.txt, Health event log, Maintenance event log, FRU, and SMBIOS information.*
5. *Fixed problem with CD-ROM image ISO mount with SUM.*
6. *Fixed issues with CD-ROM image and support for special characters in config username.*

3.76.03 (11/27/2019)

1. *Set power cycle and PCH reset to occur after updating BIOS.*
2. *Set BMC to store factory default option in flash.*
3. *Added support for unique pre-programmed default password, form 299-00-190617-001.*
4. *Added Java KVM text copy and paste feature.*
5. *Fixed problem of Redfish returning 500 if request body is empty.*
6. *Corrected behavior after updating BIOS through IPMI WebUI.*
7. *Fixed failure of DIMM Sensor name to sync with motherboard silkscreen.*
8. *Fixed problem of Web BMC alert email limiting the number of words.*
9. *Fixed problem of Syslog recording a message every 2 minutes.*
10. *Fixed inability to launch JavaKVM through SMCIPMITool.*
11. *Fixed problem of redfish/v1/Managers/1/VM1/CfgCD showing password plain text.*
12. *Fixed failure to mount VM images after changing VM port over 4 times during Web virtual media mount.*
13. *Corrected response of setting via in-band interface after setting SMTP sender email.*
14. *Fixed malfunction of Watchdog setting the pre-timeout NMI interruption after counting down to pre-timeout interval.*
15. *Fixed failure of Redfish with 03.75.01.*