

IPMI Firmware Release Notes Form

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Product Name	X11SCW-F
Release Version	3.76.42
Build Date	02/16/2022
Previous Version	3.76.35
Update Category	Critical
Dependencies	None
Important Notes	None
Enhancements	1. Support for SNMPv3 new OIDs and improve SNMPv1 trap.
New features	None
Fixes	1. Inconsistent Message between X11 SEL spec and BMC Web. 2. SATC with Redfish API 2019.03.28. 3. SATC full list 2019/03/28 failed test case (Update Service, Managers). 4. Copyright © "year" should be update to 2022 on web GUI. 5. Anonymous account or null value that can be created on HW IPMI.

	<p>6. Default value of "User Status" should be "Enable" when a manager adds a user account on Web GUI.</p> <p>7. Updated Java signing key.</p> <p>8. DoS BMC with incorrect IPMI operate packet.</p> <p>9. Buffer overflow in IPMI LAN ASF protocol.</p> <p>10. Weak MAC - Disable weak algorithm of HMAC-SHA1-96.</p> <p>11. JQuery - Multiple XSS attacks on between 1.2 and 3.5.0. (Upgrade from 1.11.0 to 3.5.1)</p> <p>12. Swap logservice related source code in Redfish managers and systems.</p> <p>13. Changed "ID" to "Id" to meet SMC IPMI standard.</p> <p>14. Fixed IPMI update issue when using sum.</p> <p>15. Disabled weak mac algorithms.</p> <p>16. Disabled weak cipher suites from the ports, tcp/443, tcp/623 and tcp/5900.</p> <p>17. IPMI is not showing relevant info on Micron 7400 NVMe drive.</p> <p>18. Return POST complete GPIO for command 0x30 0x68 0xE0 0x00.</p> <p>19. Fixed some items causing SSM failure.</p> <p>20. Fixed 129285 X11DPL-i PCIeDevices, API cannot get resource.</p> <p>21. Slot @ 0,19,31 Temp Critical/Warning Assertion/Deassertion in IPMI Health Event Log under Windows Stress Test.</p> <p>22. System alert always shows red exclamation mark without any error in Web GUI.</p> <p>23. Fixed SMTP API (returns 503 error).</p> <p>24. Mount CD-ROM image by http or https host needs License.</p> <p>25. Read every CPU Package Identifier data to check IERR is real.</p> <p>26. Failure to accept valid email address for Alerts.</p> <p>27. Fixed API field which cannot get retrieve information.</p> <p>28. Incorrect popup message when saving invalid NTP Server.</p>
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	<p>29. Active Directory server can be set with illegal User Domain Name and Domain Controller Server Address values.</p> <p>30. Refresh button will re-mount unmounted floppy disk.</p> <p>31. BMC driver in-output failure in FreeBSD12.</p> <p>32. "9.58beta REDFISH ? /redfish/v1/AccountService/ contains incorrect @odata.type"</p> <p>33. AOC SAS temp sensor issue.</p> <p>34. System Power Down PSU Status shows as failure.</p> <p>35. 'Refresh Preview Image' stops displaying from the 'Remote Console Preview' window.</p> <p>36. Health is kept "Unknown Status" when device is plugged.</p> <p>37. SMCIPMITool can't enable "ddns" and "smtp" function.</p> <p>38. DCI trigger IERR error but ipmi web has no event log and troubleshooting is not working.</p> <p>39. Wording issue under Virtual Media Page on IPMI Web.</p> <p>40. Fixed the pcie gen version in Redfish API.</p> <p>41. BMC System Health Icon is Red when using with 3108 without BBU.</p> <p>42. Add 30 68 e0 get/set post status and 30 68 f9 get service status cmd.</p> <p>43. Floppy Upload function will accept any file that ends in .ima or .img.</p> <p>44. Delete SDR command can be done by the tool, but SDR comes back after BMC reboot.</p> <p>45. Support file import/export and bmcinfo via redifsh for ssmOverRedfish tool.</p> <p>46. X11DPL-i BMC web crash during WebGUI BIOS upload stage.</p> <p>47. Fixed cannot Get /restapi/smci/BmcInfo.</p> <p>48. Support for PCIeDevices, PCIeSlots and PCIeFunctions APIs. And provide event by Redfish.</p>
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	<p>49. Change PSU Event Behavior to meet BMC_PSU_LAN_Plug_In_Out_Behavior_v1.3.docx.</p> <p>50. Failure to get volume information via REDFISH volume API.</p> <p>51. Failure to get volume information (MRVL) via REDFISH volume API.</p> <p>52. IPMI- Network Privilege changed to "No Access" when the user is deleted thru tool.</p> <p>53. WebGUI will show special character username's hex ASCII code after modifying.</p> <p>54. Configuration mismatched.</p> <p>55. Fixed redfish patch response 302 status code.</p> <p>56. Web Session does not timeout in system information page.</p> <p>57. Select FW to upload doesn't work the first time.</p> <p>58. System still shows normal even when the IPMI sensor fails.</p> <p>59. Kill web will cause web server not to close completely.</p> <p>60. Can add a username with less than 4 characters.</p> <p>61. IPMI session time out during the bios update.</p> <p>62. IPMI WEBGUI bios update will sometimes crash when updating.</p> <p>63. Flashing bios from the IPMI Web UI fails.</p> <p>64. IPv6 settings not syncing between BIOS and IPMI.</p> <p>65. Can modify CT with Notebook(0A) even though SMCIPMITOOL display is undefined on webGUI.</p> <p>66. Undefined alert when opening IKVM/HTML5 after closing the port.</p> <p>67. Redfish automation fails on 3 test cases regarding active directory.</p> <p>68. Failure to read PECI through raw 0x30 0xE6.</p>
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Release Notes from Previous Release(s)

3.76.35 (05/21/2021)

1. Changed PSU Event Behavior to adhere to BMC_PSU_LAN_Plug_In_Out_Behavior_v1.3.docx.
2. Added support for PCIeDevices, PCIeSlots, and PCIeFunctions APIs. Added support to the events by Redfish.
3. Added 30 68 e0 get/set post status and 30 68 f9 get service status cmd.
4. Added support for SNMPv3 new OIDs and improved SNMPv1 trap.
5. Fixed the PCIe Gen version in PCIeDevices instance API.
6. Fixed problem of the health staying as "Unknown Status" when device is plugged in.
7. Fixed inability to enable DDNS and SMTP using SMCIPMITool.
8. Fixed missing event log on IPMI Web and malfunction of troubleshooting when DCI triggers IERR error.
9. Fixed wording on Virtual Media Page on IPMI Web.
10. Fixed the PCIe gen. version in Redfish API.
11. Fixed problem of BMC System Health icon appearing as red when using with 3108 without BBU.
12. Fixed problem of Floppy Upload function accepting any file that ends in .ima or .img.
13. Fixed problem of SDR returning after BMC reboot once delete SDR command is executed by tool.
14. Added support for file import/export and bmcinfo via Redfish for ssmOverRedfish tool.
15. Fixed problem of X11DPL-i BMC Web crashing during WebGUI BIOS upload stage.
16. Fixed inability to get /restapi/smc/BmcInfo.
17. Fixed failure to get volume information via Redfish volume API.
18. Fixed failure to get volume information (MRVL) via Redfish volume API.
19. Fixed problem of Network Privilege on IPMI changing to "No Access" when the user is deleted via tool.
20. Fixed problem of WebGUI showing special character username's hex ASCII code after modification.
21. Fixed mismatch of configuration.
22. Patched response 302 status code on Redfish.
23. Fixed failure of web session to time out on system information page.
24. Fixed the problem of upload not working for the first time when BMC FW is selected.
25. Fixed problem of the system showing normal even when the IPMI sensor failed.
26. Fixed problem of web server not closing completely when killing the web session.
27. Added alert message when username has less than four characters.
28. Fixed flashing BIOS from IPMI Web UI.
29. Fixed failure of IPv6 settings to sync between BIOS and IPMI.
30. Fixed problem of Modify CT with Notebook (0A) through SMCIPMITOOL displaying as undefined on WebGUI.
31. Added alert message in "Console Redirection" page and disabled "Launch Console" button when IPMI port is closed.
32. Added support for SNMPv3 new OIDs and improved SNMPv1 trap.
33. Fixed failure of Redfish automation on 3 test cases regarding active directory.
34. Fixed failure to read PCIe through raw 0x30 0xE6.

3.76.24 (11/9/2020)

1. Added "Redfish Managers.Network Protocol" SSDP catalog.
2. Set SSDP to disabled by default.
3. Added support for HTML5 VM.
4. Added support for IPv6/FQDN for LDAP/Radius/AD/Alert/VirtualMedia/SMTP/syslog/NTP/DDNS server.
5. Fixed problem of Redfish returning 500 on RAID mode when getting Disk.Bay.

6. Fixed inability of OEM BIOS to execute OOB update and problem of 'Invalid Signature' appearing.
7. Fixed some account service items.
8. Fixed missing chassis intrusion sensor after 8 hours of cburn.
9. Fixed problem of NVMe and RAIDIntrate status always showing as warning.
10. Fixed inability of Redfish to get permission via AD user while enabling AD via SSL setting.
11. Fixed failure of SATC Redfish API test case for BIOS upload.
12. Fixed problems of chassis intrusion reading showing as N/A and power down failing during cburn DC cycle stress.
13. Fixed problem of all sensor readings displaying as N/A when the AOC-S40G-i2Q card is inserted.
14. Fixed failure of SUM test.
15. Fixed problem of "Event Log" field on SEL GUI screen overlapping with "Keyword Search" field on Health Event Log page.
16. Fixed mismatch of '30 6a SUM' and 'ipmitool' on DCMS/OOB license of X11DGQ-P.

3.76.20 (7/16/2020)

1. Blocked invalid input for Configuration Web.
2. Improved Visa security sensitive parameters.
3. Removed limitation to prevent IPv6 static router prefix length input of 0.
4. Added CSRF prevention feature.
5. Fixed inability to apply HTTP/HTTPs port number after restoring IPMI.
6. Removed sensitive parameters on main menu pages, specifically Remote Console Preview.
7. Fixed issue with Visa security for maintenance web pages.
8. Fixed issue with alert and AD web page.
9. Fixed problem of user being modified if given invalid input and problems when deleting an active directory.
10. Fixed problem of AOC NIC Temp sensor reading showing as n/a.
11. Fixed failure to update BIOS/BMC through SMCIPMITool/SUM.
12. Fixed Stunnel port response.
13. Fixed failure to use SUM tool to update BMC firmware.
14. 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.
15. Fixed problem of unknown() appearing under the System Information/View Details on the X11SCW-F while H12DST-B and X11DPG-QT pass.
16. Fixed problem of EC update page returning error 403.
17. Fixed failure of Get Managers iKVM URI And Check when running Redfish Automation Tool.
18. Fixed inability to save SSDP setting.
19. Fixed problem of IPMI execution exception occurring when running IPMI Automation.

3.76.16 (5/6/2020)

1. Fixed inability to run HTML5 after 3.76.01 update from 3.68 for X11.

3.76.11 (3/26/2020)

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. Added support for new sensor health status.
4. Corrected status of share LAN shown by IPMI.
5. Fixed inability to save DDNS settings on web pages in Japanese/SC languages.

6. Fixed occurrence of DCMI power reading 0.
7. Corrected health event log severity and description.
8. Fixed inability to launch KVM console under IPMIView_2.17.0_build.191212.
9. Fixed problem of "PDSlot not present" BMC SEL occurring unexpectedly.

3.76.09 (2/12/2020)

1. Set copyright to 2020.
2. Improved the dump speed of system troubleshooting.
3. Updated Jarsigner certificate.
4. Added support for Java KVM text copy and paste feature.
5. Set BMC to store factory default option in flash.
6. Fixed problem of SNMP losing some sensor information.
7. Fixed failure to update BIOS built in 2020.
8. Fixed failure to restore https port when restoring IPMI configuration.
9. Fixed mismatch of IPMI WebUI Fan Mode Help description.
10. Fixed inability to add IPv6 address.
11. Fixed absence of event if NTP is enabled and NTP server is not accessed.
12. Set System troubleshooting to support download of Version.txt, Health event log, Maintenance event log, FRU, and SMBIOS information.
13. Fixed problem with CD-ROM image ISO mount with SUM.
14. Fixed issues with CD-ROM image and support for special characters in config username.
15. Fixed failure to release IKVM resource.
16. Fixed inability of some nodes to detect BMC IP Gateway at SYS-F619P2-FT-DTP1-TS29T (MBD: X11DPFF-SN).
17. Fixed inability of existing user to modify username on web page.
18. Fixed malfunction of WebGUI display when hostname is too long.

3.76.01 (10/30/2019)

1. Blocked iKVM virtual storage if VM port is disabled.
2. Updated system troubleshooting script to read PCH Register Data.
3. Provided more information for Processor Configuration Error.
4. Set IERR event and troubleshooting to enabled by default.
5. Modified boot option to adhere to Redfish description.
6. Fine tuned the VPP sensor threshold.
7. Added support for Redfish SecureBoot feature.
8. Added account lockout feature to temporary disable user if condition is met.
9. Defined common format to add Health and Maintenance events to syslog server.
10. Added display of all IPv4/IPv6 addresses on the sys_info page.
11. Added IPv6 Static Router.
12. Added support for Redfish simple update action.
13. Set IPv6 to disabled by default.
14. Added KCM privileges.
15. Added support for unique pre-programmed default password, form 299-00-190617-001.
16. Fixed failure to update BIOS by Redfish simple update action.
17. Set VM port 623 to close after disabling VM service.
18. Added VM Security patch.
19. Fixed enable/disable for Launch KVM button.

20. Fixed problem of BMC continuously rebooting if the dedicated LAN disconnects while dedicated mode is selected.
21. Fixed failure to mount CD-ROM image.
22. Fixed problem of setting ServiceEnable of IPAccessControl via Redfish returning HTTP status code 302.
23. Corrected reading of Peripheral Temperature as 127 degrees and added Inlet Temperature sensor.
24. Fixed failure of BMC to support clearing the recv irq bit, compensating.
25. Fixed Web session timing out when logging into BMC with AD/BMC account.
26. Fixed failure of IPMI to create a new event when attempting to log in using incorrect credentials.
27. Fixed issue with display of long AD domain name.
28. Fixed failure to change TPM state by IPMI raw command.
29. Fixed failure of SMSTC test with SMCIPMITool.
30. Fixed problem of too many IERR event logs generating when IERR is triggered.
31. Fixed failure of Redfish with 03.75.01.
32. Fixed failure of SUM test with IPMI 3.75.
33. Fixed problem of redfish/v1/Managers/1/VM1/CfgCD showing password plain text.
34. Fixed failure to mount VM images after changing VM port over 4 times during Web virtual media mount.
35. Corrected response of setting via in-band interface after setting SMTP sender email.
36. Fixed malfunction of Watchdog setting the pre-timeout NMI interruption after counting down to pre-timeout interval.
37. Fixed problem of Web BMC alert email limiting the number of words.
38. Followed Ultra system to adjust Health event log severity.
39. Fixed problem of Syslog recording a message every 2 minutes.
40. Fixed inability to launch JavaKVM through SMCIPMITool.
41. Fixed failure of 2 SUM ATT test cases.
42. Corrected behavior after updating BIOS through IPMI WebUI.
43. Fixed problem of Redfish returning 500 if request body is empty.

3.68 (4/26/2019)

1. Fixed problem of Redfish returning error 500 after stress Redfish makes get request about 100 times.
2. Updated copyright 2014-2019.
3. Set Redfish scheme to be case insensitive.
4. Added support for LSI 3008/3216/3616 IT management without support for firmware update and logic volume management.
5. Added support for AD/LDAP/RADIUS hostname.
6. Fixed BMC memory leak.
7. Fixed failure to accept the special characters on the share host field.
8. Corrected fan curve for DIMM under standard mode.
9. Set license to activate when Mac changes and OOB source is enabled.
10. Fixed issue of random aux rev sometimes.
11. Fixed failure of BMC remote KVM and remote power control.
12. Fixed problem of IPMITool in-band and out-band hanging because of the special characters &~`!@#\$%^*()_-=+{[]]|\\:;'"<,>./ in username and password.
13. Fixed malfunction of top menu refresh link after AD configuration.
14. Fixed problem of IPMI WebGUI receiving "Device @ 0 Group @ 0 Slot @ 0 Removed - Assertion" during AC on/off testing.
15. Fixed missing "Power Source" in IPMI WebGUI Server Health page.

- 16. Fixed problem with title alignment adjustment on Web pages after firmware update.*
- 17. Fixed problem of IPMI wrongly parsing PCIe correctable error to other description.*
- 18. Fixed problem of Time Stamp displaying 1970/01/01 in health event log during AC on/off test.*
- 19. Added support for the UEFI PXE boot device via Redfish.*
- 20. Fixed inability of SUM to trigger BMC to execute PCH reset action when SPS is downgraded.*