

BMC Firmware Release Notes Form

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Product Name	X11DPL-I
Release Version	3.77.02
Release Date	10/28/2022
Previous Version	1.76.39
Update Category	Recommended
Dependencies	BIOS firmware 3.8a
Important Notes	<ol style="list-style-type: none">1. BMC version 3.77.02 and later can't be downgraded to an unsigned version as 1.76.39 or older.2. Updated the ASPEED VGA driver in OS before upgrading IPMI firmware 1.69 or later.3. If the current IPMI FW version is below 1.55, please contact Tech Support to get IPMI FW 1.55 and 1.75.03 before updating to 1.76.10. Update in this order, otherwise the BMC will lose FRU and all configurations.<ol style="list-style-type: none">a. Early BMC FW to 1.55 or aboveb. 1.55 or above to 1.75.03 or above
Enhancements	N/A
New features	<ol style="list-style-type: none">1. VRM I2C security protection solution and unsigned BIOS check.
Fixes	<ol style="list-style-type: none">1. Fixed DoS BMC with the incorrect IPMI operate packet.2. Fixed the buffer overflow in IPMI_LAN ASF protocol.

	<p>3. Fixed so an anonymous account or null value can be created on HW IPMI. Weak MAC – Disabled weak algorithm of HMAC-SHA1-96. JQuery – Upgraded from 1.11.0 to 3.5.1 to deal with multiple XSS attacks on IPMI between 1.2 and 3.5.0.</p> <p>4. Modified default value of "User Status" to "Enable" when a manager adds a user account on Web GUI.</p> <p>5. Updated Java signing key.</p> <p>6. Fixed SATC with Redfish API 2019.03.28</p> <p>7. Fixed SATC full list 2019/03/28 failed testcase (Update Service, Managers).</p> <p>8. Fixed click jacking potential at 3.76.35.</p> <p>9. Added storelib 7.17 and removed gdbserver from FileSystem.</p> <p>10. Fixed index error in filter rule POST command.</p> <p>11. Fixed issue where IPMIWebGUI is not showing NVMe info.</p> <p>12. Fixed SAS3908 so that it can't be detected by the current X11 BMC.</p> <p>13. Fixed so FRU Chassis Type 0F is listed as All-in-One on the Web UI and as Space-saving in SMCIPMITool. (Repeat of #123307)</p> <p>14. Fixed IPMI automation test failure.</p> <p>15. SUM test cases 251 and 440 failed due to SUM. Cannot determine if X11DPL-i does not support lockdown mode.</p> <p>16. Fixed as BMC "Firmware Revision" format is inconsistent with SMCIPMITool.</p> <p>17. Appended mask to IP access rule if the mask is 32.</p> <p>18. Fixed so user accounts can be created using full-width characters.</p>
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	<p>19. Fixed the incorrect pop-up message shown when "Password" does not match.</p> <p>20. Modified as pop-up reset confirm window is not shown before performing "iKVM Reset".</p> <p>21. Fixed the incorrect pop-up message shown when "Password" does not match "Confirm Password".</p> <p>22. Removed weak encryption algorithms from SSH2.</p> <p>23. Blocked the shared host of VM starting from "https://" url via WebUI, IPMI command. If the user enters "https://..." as host via WebUI, it will block the operation and pop-up message dialog. If the user enters "https://..." as host via IPMI OEM command, it will block the operation and return fail.</p> <p>24. SUMECO test cases 263 and 374 failed, citing bmccfg comparison error.</p> <p>25. Removed the static properties vector, as it is never used in the OData Core API.</p> <p>26. Feature of deleting a non-existent user is now blocked.</p> <p>27. Modified so SMCIPMITool will now show an error message when trying to set the NTP server to "localhost".</p> <p>28. Fixed so BMC user info should now display normally in Firefox.</p> <p>29. Fixed "iKVM Reset" message, which should now match the expected string.</p> <p>30. Fixed search sensor name among standard sensors before OEM sensors.</p> <p>31. Added more checks to avoid crashes even if TAS information is not correct.</p> <p>32. SUMECO test failure on TC263/374.</p>
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	<p>33. Fixed the portion of the window that freezes after mounting an ISO file uploaded before the ISO image has been moved.</p> <p>34. Fixed macro tab typo in iKVM HTML5 Console.</p> <p>35. Fixed the MEL that did not match the time zone set in NTP.</p> <p>36. Fixed User Network Privileges that did not match the X11 IPMI User Guide.</p> <p>37. Fixed mismatched BMC FW filename.</p> <p>38. BIOSATT has a Fail item</p> <p>39. Modified HNR of CPU, it is now shown as N/A.</p> <p>40. Fixed the incorrect error message shown when setting a user password with less than 8 characters.</p> <p>41. Fixed so there's no error message when uploading an invalid TSIG key file and private file.</p> <p>42. Fixed so the user is shown "File Not Found" after visiting the DDNS page.</p> <p>43. SMSTC IPMI ECO automation has 1 fail item.</p> <p>44. IPMI ECO automation test failed.</p> <p>45. Automation tests Failure – Test case 4005 failed.</p> <p>46. Fixed the "here" link so it will not redirect the user to the login page after 60 seconds.</p> <p>47. MEL doesn't show the user's name when setting the user name to "<test>".</p> <p>48. Modified Main Page redirect issue.</p> <p>49. MEL-shown CD-ROM image was mounted successfully when it failed.</p>
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1.76.39(10/13/2021)

1. *[ENGINEERING] Disable DIMM status sensor*
2. *Change PSU Event Behavior to meet BMC_PSU_LAN_Plug_In_Out_Behavior_v1.3.docx*
3. *Support PCIeDevices, PCIeSlots and PCIeFunctions APIs. And provide event by Redfish*
 1. *PCIeDevices API*
 - a) *issuing /redfish/v1/Chassis/1/PCIeDevices, and Redfish will return all the available resource*
 - b) *issuing /redfish/v1/Chassis/1/PCIeDevices/{pciedevice-id}, and it will return the detail of the resource*
 - c) *issuing /redfish/v1/Chassis/1/PCIeDevices/{pciedevice-id}/PCIeFunctions, and it will return all available pcie functions.*
 - d) *issuing /redfish/v1/Chassis/1/PCIeDevices/{pciedevice-id}/PCIeFunctions/{pciefunction-id}, and it will return the detail of the pcie function.*
 - e) *add oem property in PCIeDevices API for GPU instance*
 2. *PCIeSlots API*
 - a) *issuing /redfish/v1/Chassis/1/PCIeSlots, and Redfish will return the information of pcie slots.*
 - b) *update the value of ServiceLabel, and provide more details*
 3. *Redfish Event*
 - a) *create a new listener in /redfish/v1/EventService/Subscriptions*
 - b) *setup a client to receive the notification*
 - c) *trigger event*
 - d) *check the message received in client*
 - e) *there are oem properties added into the message*
4. *[ENGINEERING] feature - Support SNMPv3 new OIDs and improve SNMPv1 trap*
5. *[ENGINEERING] Add 30 68 e0 get/set post status and 30 68 f9 get service status cmd*
6. *[116316] fix - SUM test fail.*
7. *[119310] Fix "Event Log" field at SEL GUI screen is overlapped with "Keyword Search" field on Health Event Log Page*
8. *[116045] 30 6a SUM' and 'ipmitool' do not match on DCMS/OOB license on X11DGQ-P*
9. *[118681] Fix - "mei_me 0000:00:16:0: FW not ready" when run eburn linpack test.*
10. *[ENGINEERING] - failed to read PECI through raw 0x30 0xE6*
11. *[119701] Redfish automation failed on 3 test case regarding active directory*
12. *[116404] ECO-8700-3.98(09/04/2020)-undefined alert when open IKVM/HTML5 after close the port*
13. *[116406] ECO-8700-3.98(09/04/2020)-Modify CT with Notebook(OA) though SMCIPMITOOL display undefined on webGUI*
14. *[120069] After the EC update finished, the system still show "service is not available during upgrade"*
15. *[120165] fix - [IPMI ECO] BMC crash during WebGUI BIOS upload stage. [120575] fix - Flash bios from IPMI Web UI is failed. [120599] fix - IPMI WEBGUI bios update will crash sometimes when trying to update*
16. *[120567] IPv6 settings not sync between BIOS and IPMI*
17. *[121049] Fix System still show normal when IPMI sensor failed*

18. Kill web will cause web server close not completely
19. [ENGINEERING] Web Session does not timeout in system information page
20. [ENGINEER] fix - Fix redfish patch response 302 status code
21. [120478] fix - GetGpuInfo - Undefined completion code FFh
22. Support the Nvidia T4 GPU card; Support the Nvidia A10 and A40 GPU card
23. [121819] fix - [IPMI ECO] 1.76.27 GPU sensor missing. [120478] fix - GetGpuInfo - Undefined completion code FFh
24. [122071] SMT_X11IPMI_17628-- Configuration mismatched
25. [122063] WebGUI will show special character username's hex ASCII code after modify
26. [121538] Fail to get IPV6 Static/Dynamic/DN/SLAAC" message, [121539] We setup IPV6 SLAAC, Supermicro treat SLAAC IP is different with HPE, [121537] There is no Gateway info for IPv6 address
27. [120660] fix- SMT_X11IPMI_17625-- IPMI- Network Privilege changed to "No Access" when the user is deleted thru tool
28. [122062] fix - SMT_X11IPMI_17628-- Abnormal behavior after sorting sensor by LNR Copy Project Issue Link, [120657] fix - SMT_X11IPMI_17625-- IPMI- Sensor reading are abnormal after sorting
29. fix - ECO 24822 causing error in cburn
30. [ENGINEERING] - fail to get volume information (MRVL) via REDFISH volume API.
31. [ENGINEERING] - fail to get volume information via REDFISH volume API.
32. [ENGINEERING] Fix cannot Get /restapi/smc/BmcInfo
33. [X11] fix - [124842] [IPMI ECO 1.76.31] X11DPL-i BMC web crash during WebGUI BIOS upload stage
34. [ENGINEERING] fix - support file import/export and bmcinfo via redfish for ssmOverRedfish tool
35. [ENGINEERING] Delete SDR command can be done by tool but SDR come back after BMC reboot
36. [122395] Floppy Upload function will accept any file that ends in .ima or .img, with Infected Motherboard: ALL
37. [126104] BMC System Health Icon is Red when using with 3108 without BBU
38. [ENGINEERING] fix the pcie gen version in Redfish API
39. [116490] Standard -- 14602 -- v3.76.22 -- Wording issue under Virtual Media Page on IPMI Web.
40. [X11] fix - [125541] [IPMI ECO 3.76.31] DCI trigger IERR error but ipmi web no event log and troubleshooting not working.
41. [ALL] fix - 125409 - [SMCIPMITool_2.25.0_build.210326] SMCIPMITool can't enable "ddns" and "smtp" function.
42. The Health is kept "Unknown Status" when device is plugged.
43. fix the PCIe Gen version in PCIeDevices instance API
44. [X10DRFF] #124966 IPMI ECO: 'Refresh Preview Image' stops displaying from the 'Remote Console Preview' window
45. [125661] fix - SSG-6049P-E1CR60L's issue with FRU/Chassis intrusion reset/control panel LED
46. [X11] fix - [126304] [ECO- BIOS3.4a] BMC WEBUI didn't show all AOC MAC(AOC-AH25G-m2S2TM)

47. *[ENGINEERING] IPMI sensor reading will disappear on X11DSC+ when installing AOC-SGP-I4 during ftu testing.*
48. *[ENGINEERING] fix - When System Power Down PSU Status Show Failure*
49. *[X11] fix - [129837] SSG-6049P-HDFS-03-VB002 AOC SAS temp sensor issue*
50. *[100428]"9.58beta REDFISH ? /redfish/v1/AccountService/ contains incorrect @odata.type"*
51. *[126900] fix - [SUM 260_b210507][ATT2021 0517] Test case 315 - - In-Band - ChangeBmcCfg and compare due to BMC driver in-output failed in FreeBSD12*
52. *[All] fix 116489 - Refresh button will re-mount unmounted floppy disk.*
53. *[X11] fix - [128488] STD---1.76.35-- Incorrect popup message when saving invalid NTP Server, [X11] fix - [129159] [8721 -- Standard -- 3.76.36] Active Directory server can be set with illegal User Domain Name and Domain Controller Server Address values*
54. *[ENGINEER]Fix some API cannot get info*
55. *[X11] fix - [128489] STD---1.76.35-- Fail to accept valid email address for Alert*
56. *[ENGINEERING] Read every CPU Package Identifier data to check IERR ia real.*
57. *[ENGINEERING] Mount CD-ROM image by http or https host need License.*
58. *fix SMTP API returns 503*
59. *[122168] System alert always show red exclamation mark without any error in Web GUI*
60. *[128222] WD-SN640][IPMI 3.76.35] Slot @ 0,19,31 Temp Critical/Warning Assertion/Deassertion in IPMI Health Event Log under Windows Stress Test*
61. *[101301] fix - IPMI improvement fan curve for VRM is incorrect*
62. *Fix 129285 X11DPL-i PCIeDevices API cannot get resource*
63. *[ENGINEER]Fix some items have cause SSM fail*
64. *[ENGINEER] Return POST complete GPIO for command 0x30 0x68 0xE0 0x00*

1.76.23 (8/10/2020)

1. *[ALL] enhancement - "Redfish Managers.Network Protocol" SSDP catalog*
2. *[ENGINEERING] Default disable SSDP*
3. *[ENGINEERING] enhancement - block more invalid input for Configuration Web*
4. *[ENGINEERING] enhancement - Visa Security Sensitive parameters improvme*
5. *AOC NIC Temp sensor reading shows n/a*
6. *Invalid NVMe Temp critical warning SELs when hot inserted NVMe*
7. *[ENGINEERING] enhance - Sync SW team SELs severity and description*
8. *[ENGINEERING] support nVidia GPU Ampere A100*
9. *[ENGINEERING] Support IPv6/FQDN for LDAP/Radius/AD/Alert/VirtualMedia/SMTP/syslog/NTP/DDNS server.*
10. *Feature - Support HTML5 VM*
11. *[ENGINEERING] feature - add csrf prevention feature*
12. *[ENGINEERING] feature - Support inband update FW event by OEM cmd 0x30 0xc4*
13. *[ENGINEERING] feature - support new sensor health status*
14. *[116298] fix - [IPMI ECO:1.76.20] When the AOC-S40G-i2Q card is inserted, all sensor readings will be displayed as N/A.*
15. *[ENGINEERING] fix - chassis intrusion reading shows N/A and power down failure during cburn DC cycle stress*
16. *[ENGINEERING] fix - cannot get NVMe temperature from Toshiba CD5 3.84TB NVMe*

17. *[114833] fix-Redfish Automation test fail*
18. *[ENGINEERING] fix - get Disk.Bay redfish return 500 on RAID mode*
19. *[Engineering] fix - OEM BIOS can't do OOB update and show 'Invalid Signature'*
20. *[ENGINEERING] fix - some account service items*
21. *[ENGINEERING] fix - NVMe and RAIDIntrate status always warning*
22. *[ENGINEERING] fix - redfish can't get permission via AD user while enable ad via SSL setting*
23. *Fix - SATC Redfish API test case for BIOS upload*
24. *Fix PB#114833 Redfish Automation test fail*
25. *[ENGINEERING] fix - EC update page return error 403*
26. *fix - PB #114144 1 redfish fail*
27. *fix - PB #114189 SSDP setting can't be saved*
28. *fix - PB #114140 IPMIECO automation fail*
29. *Added CSRF token check mechanism into firmware upload CGI to firmware_upload.cgi and because http server down after disable http, so it will cause setting of syslog config fail.*
30. *[ENGINEERING] Fix HTTP/HTTPs port number cannot be applied after restore IPMI*
31. *[ENGINEERING] Fix - Removed sensitive parameters on pages: mainmenu, specifically Remote Console Preview*
32. *[ENGINEERING] Fix - Removed Snapshot.bmp after displaying on sys_info.www webpage.*
33. *[ENGINEERING] fix - fixed VISA security issue for maintenance web pages*
34. *[ENGINEERING] fix - alert and AD web page issue*
35. *[ENGINEERING] fix - modify user if given invalid input, fix - fix problems when deleting an active directory*
36. *[ENGINEERING] fix bios/bmc update fail through SMCIPMITOOL/SUM*
37. *[ENGINEERING] fix - stunnel port response*
38. *[ENGINEERING] fix - dcmi power reading 0*
39. *[ENGINEERING] fix - SSL Certificate update page turns to white page or 500 internal server error.*
40. *[ENGINEERING] fix - server certificate and private key got cleared when user trying to update new SSL certificate and private key.*
41. *[ENGINEERING] feature - support ssdp function*
42. *[#107878] fix - [IPMI:3.76.09]BMC web display UPI error message Incorrect*
43. *[OBT] fix - dcmi power reading 0*
44. *[ENGINEERING] fix - HTML5 can't run after update 3.76.01 from 3.68 for X11*
45. *[ENGINEERING] fix - Show the "Model" field as vendor name plus marketing name in Redfish for GPU devices*
46. *[ENGINEERING] fix - IPMI show the wrong status of share LAN;*
47. *[ENGINEERING] fix - Cannot save DDNS settings on web pages in Japanese/SC languages*
48. *[#107595] fix - NCSI test share LAN duplex.*
49. *[ENGINEERING] fix - There is no GPU info for NVIDIA Tesla T4 GPU cards*
50. *[OBT] fix - dcmi power reading 0*
51. *[ENGINEERING] fix - typo SLOM should be SIOM*

1.76.10 (28/2/2020)

1. Enhanced OS installation fail when mount larger ISO image (over than 5GB) through HTTP.
2. Updated Jarsigner certificate.
3. Set copyright 2020.
4. Improved the system trouble shooting dump speed.
5. Redfish supports Marvell RAID card functions
6. Fixed correct health event log severity and description.
7. Fixed iKVM resource is not released.
8. Fixed the link and power information of Intel SSD can't show on the Web page.
9. Fixed PBID#104970 Some nodes cannot detect BMC IP Gateway at SYS-F619P2-FT-DTP1-TS29T.
10. Fixed existing user can't modify user name in web page.
11. Fixed when Hostname too long Web GUI display mess up issue.
12. Fixed SNMP lost some sensor information.
13. Fixed failed to update bios built in 2020.
14. Fixed https port restore fail when restore IPMI config.
15. Fixed IPMI WEBUI Fan Mode Help description mismatch.
16. Fixed IPv6 address cannot be added issue.
17. Fixed no event if NTP enable and NTP server is not accessed. 13. Fixed CD-ROM Image ISO mount with SUM.

1.76.04 (12/5/2019)

1. Removed DIMM status sensor reading from WebUI and IPMITool.
2. Corrected "Trouble Shooting" to "Troubleshooting".
3. Set Redfish scheme to be case insensitive.
4. Fixed problem of Redfish returning error 500 after stress Redfish makes get request about 100 times.
5. Modified boot option to adhere to Redfish description.
6. Set IERR event and troubleshooting to enabled by default.
7. Provided more information for Processor Configuration Error.
8. Blocked iKVM virtual storage if VM port is disabled.
9. Set BMC to store factory default option in flash.
10. Added syslog configuration support for IPv4 and Ipv6 hostname.
11. Added ability of SMCIPMITool to download Maintenance event log.
12. Added advanced health event log.
13. Adjusted AEP memory threshold.
14. Added support for BBP2 PWS-1K01B-1R.
15. Added support for LSI 3008/3216/3616 IT management without support for firmware update and logic volume management.
16. Added SPS FW downgrade enhancement & CLX CPU ID Check feature.
17. Added support for AD/LDAP/RADIUS hostname.
18. Added support for riser AOC-SLG3-2M2.
19. Added KCM privileges.
20. Set Ipv6 to disabled by default.
21. Added Ipv6 Static Router.
22. Added display of all Ipv4/Ipv6 addresses on the sys_info page.

23. Added account lockout feature to temporary disable user if condition is met.
24. Defined common format to add Health and Maintenance events to syslog server.
25. Added support for Redfish SecureBoot feature.
26. Added support for unique pre-programmed default password, form 299-00-190617-001.
27. Fixed failure of ATT SM test "test_case#113.
28. Fixed failure of 3 critical tests for Redfish Automation.
29. Fixed failure of ME stress test.
30. Fixed problem of BMC resetting when deleting non-existing active directory group with SMCIPMITool.
31. Fixed inability to sort health event log by date but not time.
32. Fixed problem of all event severities showing as "information" when sending test alert.
33. Fixed problem of fan operating at full speed after changing mode from FullSpeed to Standard.
34. Fixed problem of "save uncompleted" warning appearing on IPMI ECO improve item test.
35. Fixed failure to add AD role group using SMCIPMITool.
36. Fixed problem of system health status showing as critical during BIOS post.
37. Fixed failure of Redfish storage volume actions.
38. Fixed incorrect LSI enclosure and drive numbers on Redfish.
39. Fixed problem of system health status on WebUI showing as critical during BIOS boot or IPMI update.
40. Fixed failure of ME stress test.
41. Fixed failure to launch Java SOL a second time.
42. Fixed Maintenance Event Log and Health Event Log in Redfish.
43. Fixed issue of "Save uncompleted" message appearing when changing time and saving it on IPMI Web.
44. Corrected CATERR-Assertion event sensor type from CATERR to Processor.
45. Fixed failure of IPMI ECO Redfish automated test.
46. Fixed inability to set user privilege to No Access via cmd.
47. Fixed issue with BMC memory leak.
48. Fixed inability of BMC to detect power supply PWS-721P.
49. Fixed inability to read SMC power supply FRU.
50. Fixed missing "Power Source" in IPMI WebGUI Server Health page.
51. Fixed problem with title alignment adjustment on Web pages after firmware update.
52. Fixed problem of IPMI wrongly parsing PCIe correctable error to other description.
53. Fixed problem of Time Stamp displaying 1970/01/01 in health event log during AC on/off test.
54. Added support for the UEFI PXE boot device via Redfish.
55. Fixed inability of SUM to trigger BMC to execute PCH reset action when SPS is downgraded.
56. Fixed failure to accept the special characters in the share host field.
57. Corrected fan curve for DIMM and VRM under standard mode.
58. Patched with pantsdown security fix for CVE-2019-6260.
59. Fixed problem of random Aux Rev occurring.
60. Set license to activate when MAC changes and OOB source is enabled.
61. Fixed abnormality of system power consumption when power policy is enabled.
62. Fixed failure of BMC remote KVM and remote power control.

- 63. Fixed problem of IPMITool in-band and out-band hanging because of the special characters &~!@#\$%^*()_-=+{[]|\:;'"./ in username and password.
- 64. Fixed malfunction of top menu refresh link after AD configuration.
- 65. Fixed problem of too many IERR event logs generating when IERR is triggered.
- 66. Fixed failure of SMSTC test with SMCIPMITool.
- 67. Fixed failure to change TPM state by IPMI raw command.
- 68. Fixed failure to display the IPMI VLAN ID range message.
- 69. Corrected NVMe information retrieved through SCMIIPMITool.
- 70. Fixed issue with display of long AD domain name.
- 71. Fixed failure of IPMI to create a new event when attempting to log in using incorrect credentials.
- 72. Fixed Web session timing out when logging into BMC with AD/BMC account.
- 73. Fixed failure of BMC to support clearing the recv irq bit, compensating.
- 74. Fixed problem of BMC continuously rebooting if the dedicated LAN disconnects while dedicated mode is selected.
- 75. Fixed problem of setting ServiceEnable of IPAccessControl via Redfish returning HTTP status code 302.
- 76. Corrected reading of Peripheral Temperature as 127 degrees and added Inlet Temperature sensor.
- 77. Added VM Security patch.
- 78. Fixed enable/disable for Launch KVM button.
- 79. Fixed failure of legacy power supply to respond to BMC.
- 80. Set VM port 623 to close after disabling VM service.
- 81. Fixed problem of Web BMC alert email limiting the number of words.
- 82. Followed Ultra system to adjust Health event log severity.
- 83. Fixed problem of Syslog recording a message every 2 minutes.
- 84. Fixed failure of Test Case 215 on X11DGQ.
- 85. Fixed failure of SUM test with IPMI 3.75.
- 86. Fixed problem of redfish/v1/Managers/1/VM1/CfgCD showing password plain text.
- 87. Corrected response of setting via in-band interface after setting SMTP sender email.
- 88. Fixed malfunction of Watchdog setting the pre-timeout NMI interruption after counting down to pre-timeout interval.
- 89. Fixed inability to change SecureBootMode in Redfish.
- 90. Fixed mismatch of preservation in 1.74.xx and 1.75.xx firmware.
- 91. Corrected behavior after updating BIOS through IPMI WebUI.
- 92. Fixed abnormality of system power consumption when SPM power policy is enabled.

1.56 (9/21/2018)

- 1. Fixed problem of all KVM consoles disconnecting after launching the maximum of 4 sessions.
- 2. Added support for 3rd party power supply.
- 3. Added support for LSI3108 firmware update through I2C.
- 4. Updated Redfish API to 3/16/2018.
- 5. Added support for TAS HDD Driver events.
- 6. Added support for maintenance system event log for UID on/off.
- 7. Added support for DIMM status in IPMI/Web sensor reading and Redfish.
- 8. Added support for RSD IPMI command.

9. Added support for syncing system MAC and AOC MAC to Redfish without TAS.
10. Added support for system event log to record most configuring operations.
11. Added support for HII configuration in Redfish.
12. Added support for adding CPU MRC event.
13. Added support for new NVMe CPLD/MCU firmware and Date Code Support.
14. Fixed inability of CPU overheat LED to turn ON in IPMI 1.52 when CPU processor hot event occurs.
15. Fixed failure of BIOS update when entering ME recovery mode.
16. Fixed the incorrect sensor type of M.2 SATA in the IPMI event log.
17. Enabled setting all actions or at least 2 actions to the same hotkeys.
18. Fixed missing foreign language translation for "Preference" settings in HTML5.
19. Fixed failure of 19 critical tests in Redfish automation.
20. Fixed missing SEL when unplugging M.3.
21. Fixed problem of some pages displaying abnormally when language is set to "Japanese".
22. Resolved AD/LDAP/RADIUS conflict.
23. Fixed ability to save invalid RADIUS input in IPMI Web, grammar problem on Hardware Information page, problem of alerts recurring in IPMI Web when user enters invalid values, problem of Web Session and Syslog port accepting double/float value as input, ability to save invalid value using terminal commands (JavaScript), problem of Active Directory configuration in IPMI Web accepting invalid value, problem of IPMI Web allowing user to modify Reserved User, problem of invalid input in 1.1.1.1/ format triggering no alert on IPMI Web IP Access Control page, and problem of page not showing user correct format if wrong path entered on CD-ROM Image page.
24. Fixed inability of LAN configuration and power control to work after BMC VLAN is enabled and LAN mode is changed.
25. Fixed problem of power supply removal not triggering alert, sensor error status, and error LED blinking.
26. Hid IPMI ejection function for NVMe with VMD mode.
27. Fixed problem of Java iKVM viewer showing "black rectangle portion" where HTML5 doesn't.
28. Fixed problem of iKVM being inaccessible with new port configuration.
29. Fixed incorrect power history record after AC cycle stress test.
30. Fixed failure of Redfish automation test.
31. Fixed failure of iKVM/HTML5 to work properly after launching and resetting a few times.
32. Copied BM/BP/BS from FRU1 to FRU0 if they are empty.
33. Prevented invalid IP format on IP Access Control page.
34. Improved fan control efficiency.
35. Fixed BIOS anti-rollback.
36. Removed clearing of license when clearing configuration.
37. Fixed issue with redfish/v1/Systems/1/Storage/HA-RAID/Volumes.
38. Fixed missing warning message prompt when executing BIOS rollback from X11DPLI_8.615(SPS :4.0.04.340) to X11DPLI_7.B01(SPS:4.0.04.288).
39. Changed 'event log' to 'health event log' and 'system event log' to 'maintenance event log'.
40. Fixed inability to save and restore syslog configuration via maintenance->IPMI Configuration.

- 41. Fixed failure of FAN.
- 42. Fixed excessive delay for temperature sensor reading.

1.51 (4/30/2018)

- 1. Hid IPMI ejection function for NVMe with VMD mode.
- 2. Enabled system event log to record most configuring operations.
- 3. Enabled HII configuration.
- 4. Added IERR interrupt control with disabled as default setting.
- 5. Enabled system MAC and AOC MAC to sync to Redfish without TAS.
- 6. Fixed incorrect memory detection.
- 7. Fixed issue with IPMI fan curve.
- 8. Fixed problem of Java iKVM viewer showing "black rectangle portion" where HTML5 doesn't.
- 9. Fixed problem of iKVM being inaccessible with new port configuration.
- 10. Fixed incorrect power history record after AC cycle stress test.
- 11. Fixed incorrect system name on the LCD panel.
- 12. Fixed problem of FAN duty appearing as 100% when BMC is reset.
- 13. Fixed missing X11DSC+ Inlet temperature.
- 14. Fixed ability to save invalid RADIUS input in IPMI Web, grammar problem on Hardware Information page, problem of alerts recurring in IPMI Web when user enters invalid values, problem of Web Session and Syslog port accepting double/float value as input, ability to save invalid value using terminal commands (JavaScript), problem of Active Directory configuration in IPMI Web accepting invalid value, problem of IPMI Web allowing user to modify Reserved User, problem of invalid input in 1.1.1.1/ format triggering no alert on IPMI Web IP Access Control page, and problem of page not showing user correct format if wrong path entered on CD-ROM Image page.
- 15. Fixed inability of LAN configuration and power control to work after BMC VLAN is enabled and LAN mode is changed.
- 16. Fixed problem of power supply removal not triggering alert, sensor error status, and error LED blinking.
- 17. Fixed problem of all KVM consoles disconnecting after launching the maximum of 4 sessions.
- 18. Resolved AD/LDAP/RADIUS conflict.
- 19. Fixed problem of some pages displaying abnormally when language is set to "Japanese".