

IPMI Firmware / BIOS Release Notes Form

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Product Name	X11DSC+
Release Version	3.77.02
Release Date	10/28/2022
Previous Version	1.76.36
Update Category	Recommended
Dependencies	None
Important Notes	None
Enhancements	<ol style="list-style-type: none">1. [ENGINEER] Return POST complete GPIO for command 0x30 0x68 0xE0 0x002. Added storelib 7.17 Removed gdbserver from FileSystem3. SAS3908 can't be detected by current X11 BMC
New features	<ol style="list-style-type: none">1. Support Ampere A100 80G PCIe2. [ENGINEERING] VRM protection sync with SW team
Engineering	<ol style="list-style-type: none">1. [ENGINEERING] Update Java signing key2.
Fixes	<ol style="list-style-type: none">1. Inconsistent Message between X11 SEL spec and BMC Web2. Fix for SATC with Redfish API 2019.03.283. [ENGINEERING] - Fix SATC full list 2019/03/28 failed estcase(Update Service, Managers)

	<p>4. [X11] Fix - [136273] 136197--ECO -- 13102-- 03.76.40(12/24/2021) -- Copyright © "year" should be update to 2022 on web GUI.</p> <p>5. [X11] Fix - [IssueID:136198] Anonymous account or null value can be created on HW IPMI.</p> <p>6. [X11] Fix - [IssueID:136025] Default value of "User Status" should be "Enable" when a manager add user account on Web GUI.</p> <p>7. [130474] - [Security] DoS BMC with incorrect IPMI operate packet. [130390] - [Security] Buffer overflow in ipmi_lan ASF protocol. [130584] - [Security] DoS BMC with incorrect IPMI operate packet (4). [129980] - Anonymous account or null value can be created on HW IPMI. Weak MAC - Disable weak algorithm of HMAC-SHA1-96. JQuery - Multiple XSS attacks on between 1.2 and 3.5.0. (Upgrade from 1.11.0 to 3.5.1)</p> <p>8. [ENGINEERING] disable weak mac algorithms</p> <p>9. [ENGINEERING] Disable weak cipher suites from the ports, tcp/443, tcp/623 and tcp/5900.</p> <p>10. IPMI is not showing relevant info Micron 7400 NVMe drive.</p> <p>11. [ENGINEER]Fix some items have cause SSM fail</p> <p>12. Fix 129285 X11DPL-i PCIeDevices API cannot get resrouce</p> <p>13. [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</p> <p>14. [122168] System alert always show red exclamation mark without any error in Web GUI</p> <p>15. fix SMTP API returns 503</p> <p>16. [ENGINEERING] Mount CD-ROM image by http or https host need License.</p> <p>17. [ENGINEERING] Read every CPU Package Identifier data to check IERR ia real.</p> <p>18. [X11] fix - [128489] STD---1.76.35-- Fail to accept valid email address for Alert</p>
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	<p>19. [ENGINEER]Fix some API cannot get info</p> <p>20. [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</p> <p>21. [All] fix 116489 - Refresh button will re-mount unmounted floppy disk.</p> <p>22. [126900] fix - [SUM 260_b210507][ATT2021 0517] Test case 315 - - In-Band - ChangeBmcCfg and compare due to BMC driver in-output failed in FreeBSD12</p> <p>23. [100428]"9.58beta REDFISH ? /redfish/v1/AccountService/ contains incorrect @odata.type"</p> <p>24. [X11] fix - [129837] SSG-6049P-HDFS-03-VB002 AOC SAS temp sensor issue</p> <p>25. [139444] fix - Skip "accept all" rule in IPv6 table when counting index</p> <p>26. [X11] Fix - [139928][ECO -- 8721 -- 1.76.43] FRU Chassis Type 0F is listed as All-in-One on the Web UI, but Space-saving in SMCIPMITool (Repeat of #123307)</p> <p>27. [X11] Fix - [138719][IPMI ECO 1.76.42]IPMI automation test failure [X11] Fix - [138424] SUM test case 251 and 440 failed due to SUM doesn't determine X11DPL-i not support lock down mode.</p> <p>28. [136122] - BMC "Firmware Revision" format is inconsistent with SMCIPMITool.</p> <p>29. [136193] fix - Append mask to IP access rule if mask is 32</p> <p>30. [ENGINEERING] [X11] RE: AOC-STG-b2T FW + HW ECO (CM: COMPUWARE)</p> <p>31. [ENGINEERING] STD -- 19146 – 3.76.35 – [Security] Click jacking potential at 3.76.35</p> <p>32. [137250] fix - Fix index error in filter rule POST command</p>
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	<p>33. [X11] Fix - [135772] [PM9A3 E1.S 3.84TB] IPMIWebGUI not showing nvme info</p> <p>34. [ENGINEERING] Fix web miss HDD Temp sensor</p> <p>35. [138690] - User accounts can be created using full-width characters [136515] - Pop up message incorrect while "Password" do not match [136511] - Doesn't pop up reset confirm window, before perform "IKVM Reset". [136197] - Doesn't pop up reset confirm window, before perform "IKVM Reset". [136180] - Pop up message incorrect while "Password" do not match "Confirm Password".</p> <p>36. [139793] fix: Remove weak encryption algorithms from SSH2.</p> <p>37. Block the share host of VM start from https:// url via WebUI, IPMI command If user enter https://... as host via WebUI, it will block the operation and pop-up message dialog. If user enter https://... as host via IPMI oem command , it will block the operation and return fail.</p> <p>38. 44.[X11]Fix - [144315] STD -- 10465 -- 1.76.47 -- BMC FW filename does not match</p> <p>39. 45.[141091] - HDD Temp missing (Show N/A) from IPMI sensor during DC_ONOFF test.</p> <p>40. 46.[ENGINEERING] To support AOC-MTG-i4T</p> <p>41. 47.[ENGINEERING] - Modify mainPage redirect issue</p> <p>42. 48.[X10_X11] - [147367] IP unreachable after modifying Web Port or Web SSL Port to valid value 1</p>
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Release Notes from Previous Release(s)

1.76.36(06/28/2021)

- 1.The Health is kept "Unknown Status" when device is plugged.
- 2.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/PCleDevices/{pciedevice-id}/PCleFunctions/{pciefunction-id}, and it will return the detail of the pcie function. e) add oem property in PCleDevices API for GPU instance 2. PCleSlots API a) issuing /redfish/v1/Chassis/1/PCleSlots, 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

3.Change PSU Event Behavior to meet BMC_PSU_LAN_Plug_In_Out_Behavior_v1.3.docx

4.[ENGINEERING] Add 30 68 e0 get/set post status and 30 68 f9 get service status cmd

5.[ENGINEERING] fix - When System Power Down PSU Status Show Failure

6.[ENGINEERING] IPMI sensor reading will disappear on X11DSC+ when installing AOC-SGP-I4 during ftu testing.

Page 1 of 3 SM Form #123, Rev. H (Issued 01/08/16)

7.[125661] fix - SSG-6049P-E1CR60L's issue with FRU/Chassis intrusion reset/control panel LED

8.[X10DRFF] #124966 IPMI ECO: 'Refresh Preview Image' stops displaying from the 'Remote Console Preview' window

9.fix the PCIe Gen version in PCleDevices instance API

10.[ALL] fix - 125409 - [SMCIPMITool_2.25.0_build.210326] SMCIPMITool can't enable "ddns" and "smtp" function.

11.[X11] fix - [125541] [IPMI ECO 3.76.31] DCI trigger IERR error but ipmi web no event log and troubleshooting not working.

12.[116490] Standard -- 14602 -- v3.76.22 -- Wording issue under Virtual Media Page on IPMI Web.

13.[ENGINEERING] fix the pcie gen version in Redfish API

14.[126104] BMC System Health Icon is Red when using with 3108 without BBU

15.[122395] Floppy Upload function will accept any file that ends in .ima or .img, with

16.[ENGINEERING] Delete SDR command can be done by tool but SDR come back after BMC reboot

17.fix [ENGINEERING] fix - upport file import/export and bmcinfo via redifsh for ssmOverRedfish tool

18.fix [ENGINEERING] Fix cannot Get /restapi/smc/BmcInfo

19.[ENGINEERING] - fail to get volume information via REDFISH volume API.

20.[ENGINEERING] - fail to get volume information (MRVL) via REDFISH volume API.

21.fix - [120660] SMT_X11IPMI_17625-- IPMI- Network Privilege changed to "No Access" when the user is deleted thru tool

1.76.30 (02/03/2021)

1. [ENGINEERING] enhance - Sync SW team SELs severity and description

2. [ENGINEERING] enhancement - Install OS fail when mount larger ISO image (over than 5GB) through HTTP.

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

6. [ENGINEERING] feature - Support inband update FW event by OEM cmd 0x30 0xc4

7. [ENGINEERING] feature - support ssdp function

8. [ENGINEERING] feature - support new sensor health status

9. [ENGINEERING] feature - add csrf prevention feature

10. [ENGINEERING] Support IPv6/FQDN for DAP/Radius/AD/Alert/VirtualMedia/SMTP/syslog/NTP/DDNS server.

11. Support the Nvidia T4 GPU card; Support the Nvidia A10 and A40 GPU card

12. [ENGINEERING] fix - dcmi power reading 0

13. [ENGINEERING] fix - SSL Certificate update page turns to white page or 500 internal server error.

14. *[ENGINEERING] fix - server certificate and private key got cleared when user trying to update new SSL certificate and private key.*
15. *[#107878] fix - [IPMI:3.76.09]BMC web display UPI error message Incorrect*
16. *[OBT] fix - dcmi power reading 0*
17. *[ENGINEERING] fix - Show the "Model" field as vendor name plus marketing name in Redfish for GPU devices*
18. *[ENGINEERING] fix - IPMI show the wrong status of share LAN;*
19. *[ENGINEERING] fix - Cannot save DDNS settings on web pages in Japanese/SC languages*
20. *[ENGINEERING] fix - There is no GPU info for NVIDIA Tesla T4 GPU cards*
21. *[ENGINEERING] fix - typo SLOM should be SIOM*
22. *[107080] fix - [IPMI ECO] GPU 1 and 2 sensors are missing in IPMI 1.76.09*
23. *[ENGINEERING] fix - Show the "Model" field as vendor name plus marketing name in Redfish for GPU devices.*
24. *[ENGINEERING] fix - correct health event log severity and description*
25. *[ENGINEERING] Fix HTTP/HTTPs port number cannot be applied after restore IPMI*
26. *[ENGINEERING] Fix - Removed sensitive parameters on pages: mainmenu, specifically Remote Console Preview.*
27. *[ENGINEERING] fix - fixed VISA security issue for maintenance web pages*
28. *[ENGINEERING] fix - alert and AD web page issue*
29. *[ENGINEERING] fix - modify user if given invalid input fix - fix problems when deleting an active directory*
30. *Invalid NVMe Temp critical warning SELs when hot inserted NVMe;*
31. *[ENGINEERING] fix bios/bmc update fail through SMCIPMITOOL/SUM*
32. *[ENGINEERING] fix - stunnel port response*
33. *1) Added CSRF token check mechanism into firmware upload CGI to firmware_upload.cgi 2) Because http server down after disable http, so it will cause setting of syslog config fail.*
34. *fix - PB #114144 1 redfish fail*
35. *fix - PB #114189 SSDP setting can't be saved*
36. *fix - PB #114140 IPMIECO automation fail*
37. *Fix - SATC Redfish API test case for BIOS upload*
38. *Fix PB#114833 Redfish Automation test fail*
39. *Feature - Support HTML5 VM Fix - PB #115139, [IPMI 1.76.20]ISO can't mount under HTML5*
40. *[ENGINEERING] Default disable SSDP Fix-PB #115742, BMC FW 1.76.16 has risk to cause intranet problem*
41. *fix [ENGINEERING] fix - get Disk.Bay redfish return 500 on RAID mode*
42. *[ALL] enhancement - "Redfish Managers.Network Protocol" SSDP catalog*
43. *fix [ENGINEERING] fix - some account service items*
44. *fix [ENGINEERING] fix - NVMe and RAIDIntrate status always warning*
45. *[ENGINEERING] fix - redfish can't get permission via AD user while enable ad via SSL setting*
46. *[116298] fix - [IPMI ECO:1.76.20] When the AOC-S40G-i2Q card is inserted, all sensor readings will be displayed as N/A.*
47. *[114833] fix-Redfish Automation test fail*
48. *[116316] fix - SUM test fail.*
49. *[116045] 30 6a SUM' and 'ipmitool' do not match on DCMS/OOB license on X11DGQ-P*
50. *[118681] Fix - "mei_me 0000:00:16.0: FW not ready" when run eburn linpack test.*
51. *[120567] IPv6 settings not sync between BIOS and IPMI*
52. *[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*

53. *[116406] ECO-8700-3.98(09/04/2020)-Modify CT with Notebook(0A) though SMCIPMITOOL display undefined on webGUI*
54. *[116404] ECO-8700-3.98(09/04/2020)-undefined alert when open IKVM/HTML5 after close the port*
55. *[ENGINEERING] feature - Support SNMPv3 new OIDs and improve SNMPv1 trap*
56. *[119701] Redfish automation failed on 3 test case regarding active directory*
57. *[ENGINEERING] - failed to read PECL through raw 0x30 0xE6*
58. *[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*
59. *[122063] WebGUI will show special character username's hex ASCII code after modify*
60. *[122071] SMT_X11IPMI_17628-- Configuration mismatched*
61. *[ENGINEER] fix - Fix redfish patch response 302 status code*
62. *[ENGINEERING] Web Session does not timeout in system information page*
63. *Kill web will cause web server close not completely*
64. *[121049] Fix System still show normal when IPMI sensor failed*