

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X12DPL-i6/NT6</b>
<b>Release Version</b>	<b>1.01.17</b>
<b>Release Date</b>	<b>03/04/2022</b>
<b>Previous Version</b>	<b>1.00.20</b>
<b>Update Category</b>	<b>Critical</b>
<b>Dependencies</b>	<b>N/A</b>
<b>Important Notes</b>	<b>N/A</b>
<b>Enhancements</b>	<ol style="list-style-type: none"><li>1. During bmc fwUP, keep fan speed. During bmc reset, keep fan speed.</li><li>2. Support new group sensor design</li><li>3. Max number of SEL up to 4096.</li><li>4. Address EUI48 issue. Support oem command 0x30 0x68 0xe1</li><li>5. Better compatibility with latest IPMIECO</li><li>6. Better compatibility with latest SUMECO</li><li>7. Better compatibility with latest redfish ATT</li></ol>
<b>New features</b>	<ol style="list-style-type: none"><li>1. Add option in BMC UI to create disabled user or edit user to disable.</li><li>2. Support Preserve BIOS Boot Options Configuration when updating BIOS FW.</li></ol>

Fixes	<ol style="list-style-type: none"> <li>1. [137924] STD -- 16416 -- 01.01.22 (2022/02/15) -- Add SNMP type user Not have * to inform Auth Key and Private Key are required items</li> <li>2. [138264] ECO -- 16774 -- 01.01.16 (2022/02/15) -- Language Change title string not translated</li> <li>3. Improve PSU initialization code, add delay and retries.</li> <li>4. [137300] ECO--15340-- 01.01.13(01/27/2022) -- Create new user on web UI should not get error, even though the user ID is occupied on NoAcces user</li> <li>5. [138110] ECO--15340-- 01.01.16 (02/15/2022) -- It should not present "Delete" icon while login "Operator" or "User" privileges account. [138112] ECO--15340-- 01.01.16 (02/15/2022) -- Modify password while login "Operator" or "User" privileges account will return Oops error!</li> <li>6. No GPU found on WEB BMC</li> <li>7. [137093][Redfish API Automation test failed]</li> <li>8. [137368] [ECO -- 10349 -- 01.01.13 (20220127) -- Mount failed pop up error message and Even log are incorrectly</li> <li>9. [137442] ECO -- 15338 -- 01.01.13(20220127) -- Mount *.img display wrong file type on Java iKVM Virtual Media</li> <li>10. [137357] ECO -- 17274 -- 01.01.13(01/27/2022) -- Update invalid FW will show MEL message when update BIOS and CPLD</li> <li>11. [136988] IPMI ECO] Unspecified Event Log Assertion When AC ON</li> <li>12. [136663] ECO -- 17046 -- 08.10.19 (01/07/2022) -- iKVM(JAVA plug-in/HTML5) should be support IMA file type. [137280] ECO--15340-- 01.01.13(01/27/2022) -- iKVM(JAVA plug-in), should be support "IMA" image.</li> <li>13. [137087] GPUs missing under GPU tab in IPMI Web GUI, [137010] GPU and CPU liquid cooling pump SEL error in Liquid cooled system, and no GPUs detected</li> <li>14. All Broadcom AOC controllers such as 3008, 3616, 38xx and 39xx will not been discovered.</li> <li>15. [136607] IPMI ECO Update BIOS failed</li> <li>16. Storage feature broken in 01.01.10</li> <li>17. STD -- 17212 -- 01.01.04 -- [Security] Specific strings could brute force the BMC directory.</li> <li>18. [135002] STD -- 17212 -- 09.14.10 BETA -- [Security] ipmitool can set lan mode out of range</li> <li>19. [134964] [BMC-Intel VROC 7.5 OOB] Please grey out "Create Raid" icon if no more physical drive available to create new Raid volume.</li> <li>20. [134545] STD-- 18379 -- 01.01.00-- Function -- Can't sync NTP server when BMC has IPv6 DNS</li> <li>21. [134183] STD -- 17212 -- 01.01.08 -- Password goes wrong when contains</li> <li>22. [134282] STD -- 17212 -- 01.01.08 -- [Security] XSS attack at Notification Alert Redfish protocol</li> <li>23. System with AST2600 have hang issue when running DC on/off testing with Red hat 8.3. We find the eSPI will hang after system hang. Aspeed provide us to clear 0x1e6ee080 bit 30 to 0.</li> <li>24. [131058] STD -- 17212 -- 01.00.16 BETA M-b~@~S [Security] 500 Internal error at /redfish/v1/Systems/1/SecureBoot/Actions/SecureBoot.ResetKeys, [131061] STD -- 17212 -- 01.00.16 BETA M-b~@~S [Security] 500 Internal error at /redfish/v1/Managers/1/LicenseManager/ActivateLicense</li> <li>25. [132353] [Re-open BMC-Intel VROC 7.5 OOB] IPMI WEB GUI -&gt; VROC controller information and logical devices information are not showing in storage page</li> </ol>
<b>1.00.12 (10/01/2021)</b>	
<ol style="list-style-type: none"> <li>1. Optimize 1U/2U judgement logic</li> <li>2. Follow IPMI_voltage_sensors_threshold_1.05.xlsx, tune the LNR, LC, UC, UNR to +/-10%. Based on HW designer info: nominal voltage value of 3V3SB is 45V in this MB nominal</li> </ol>	

voltage value of P1\_DIMM A~D is 1.23V in this MB. Notice that PVNN\_PCH LNR/UNR values are constant.

3. Remove VTT and VPP SDR first, because this HW design and SW design have limitations, it will trigger SEL when test system DC on/off stress.
4. 1. LAN 1 MAC display 00:00:00:00:00:00 on Web homepage. 2. Check the number of LAN in platform.conf sent by BIOS to hide it.
5. 1. Support NCSI package ID 1 priority. 2. Support list: AOC-S100GC-i2C/ AOC-S100G-m2C/ AOC-S25G-m2S/ AOC-S25G-b2S/ AOC-S25G-i2S/ AOC-STG-b2T
6. After MB cpld fwUP, if system is off, bmc will power\_on the system.
7. Remove Remove Chassis Intru SDR.
8. TEE OS 0x42 error message on IPMI MEL doesn't match with "Kernel code segment (offset: ##) was compromised
9. [130474] BMC crash and forceful restart caused by malicious data transmission
10. [129981] Creation and activation of a null user and password
11. Better compatibility with redfish ATT, after applying the security patches.
12. Implement hyper link of carrier board IP address
13. [121184] [DVT]No AOC GPU/Network info & GPU/Network Temp Sensor in IPMI Web GUI
14. [129014] [IPMI ECO 01.00.12] Check sensor not matched with SPEC
15. [126458] X12DPU-6 IPMI 3.3VSB sensor reading gap and Non-Recovery SEL is triggered.
16. [129094] Disconnection message is not exactly when perform IPMI firmware update on web. (iKVM)
17. Follow X12DHM 1U thermal design
18. Evidence should not blocked fwUP in 2021-07 release.
19. [129094] BETA --18367 -- 09.01.01(06/29/2021) -- Disconnection message is not exactly when perform IPMI firmware update on web. (iKVM)
20. [128850]{AST2600 A3} IPMI ECO Automation test failed on TC#124, 408, 409, 503
21. [129721] ECO --16914 -- 01.00.14 (07/27/2021)-- Display wrong slot of location field on Network AOC page.
22. [129624] Duplicate AIOM1 mac address on the WebGUI Network AOC page
23. [webGUI] Hide LAN1 MAC Address if it is 00:00:00:00:00:00
24. webGUI "CPU Speed" info data source has been fixed from MaxSocketSupportedSpeed to OperatingSpeed
25. [129554] SUM - Four test cases fail due to the power supply information is empty
26. [129313] cburn onoff failed: mcx512a-acut AOC temp sensor detected n/a twice
27. [122962] Beta -- 16914 -- 00.10.86 ? System entered Update Mode after web Port page stress test"
28. config can't save Sendre of SMTP
29. Shouldn't allow user to set user name and password to the same
30. [129580] A10 GPU is not following fan curve correctly
31. [129432] ECO -- 16914 -- 01.00.14 (07/27/2021) -- Tip message will cover button when browser zoom in size is more than 150%
32. Uncorrectable error and PPR message are incorrect while triggering under OS. Implemented by X12\_IPMIManagement\_Standarization\_SPEC\_SEL\_20200923.xlsx
33. [129715] BETA -- 17212 -- 01.00.14 -- [Security] Users feature has Cross-site scripting issue when use specific payload

34. [129624] Duplicate AIOM1 mac address on the WebGUI Network AOC page
35. [129721] ECO --16914 -- 01.00.14 (07/27/2021)--Display wrong slot of location field on Network AOC page
36. [128187] BMC sensor reading value have more than 5%
37. [121184] No AOC GPU/Network info & GPU/Network Temp Sensor
38. Beta -- 16914 --00.20.05 – Incorrect PCIeInterface info displays for AOC & AOIM card through Redfish
39. [130248] STD -- 16914 -- 01.00.15 -- [iKVM] "Mouse Settings" tabs did not translated into other language on HTML5. d "Close" tab is not translated in Japanese.
40. [130184] Missing AIOM thermal sensor on IPMI
41. [130158] [IPMI ECO 00.13.11] IPMI ECO automation test failed
42. 1. R: [120371] MB\_NIC\_Temp2 sensor reading sometimes will show as N/A, when running AC on/off stress, 2. The root cause is MB\_NIC2 Temp unstable. BMC remove MB\_NIC2 temp. 3. BMC only monitor MB\_NIC1 Temp.
43. Refactor FD related codes
44. [126021] No warning message when set same hotkeys with different actions.(Java/iKVM)
45. [124856] Set hot key (Ctrl+Shirt+F5) to reboot system will no action via Java plug-in
46. [130499] Std – 16914 – 01.00.17 – configured SMTP password will disappear if re-save even without modifying it
47. [130496] Can't open JAVA iKVM under Windows Server OS
48. [129971][DVT] There's no GPU information and temperature sensor reading on IPMI Web. [130303][DVT] There's no GPU information and temperature sensor reading on IPMI Web when NVIDIA TESLA T4 installed.
49. [130859] STD-16194-- 01.00.18(09/08/2021) – MultiNode attribute issue
50. 2U sku when Chassis Part number is "CSE-829U" at X12DPU, "CSE-HS219U" at X12DHM
51. BMC recognize 2U sku when Chassis Part number is "CSE-829U" at X12DPU, "CSE-HS219" at X12DHM
52. [130982] ECO -- 20033 -- 01.00.39 BETA (09/11/2021) -- NTP show fail message after setting
53. [120199] BETA --16914 -- 00.10.74(11/23/2020) -- Update BMC firmware no responds when network link is 10M & 100M Half/Full Duplex.
54. [130565] SUM GetBmcCfg always show VLAN setting was enabled
55. Configurations in "resolv.conf" file cannot be reset after BMC is restored to the factory default setting
56. [131124][X12DPG-U6]CPU node will loss BMC connection if cold reset CarrierBoard BMC in system without AIOM.
57. [131690] "Save" button was not an proper placement for the "CLEAR ALL the Event Logs?"
58. Fix SUM inband feature broken

### **1.00.12 (07/20/2021)**

1. Improved bios update internal flow
2. bmc boot firmware flash uses 3byte mode
3. Turn on adc compensation feature
4. Better compatibility with provisioning rot\_checker script 2021Q2.

5. *When a new image being programmed is introducing a new/later version of RollbackID to the one programmed in RoT, BMC will automatically update Golden Image in addition to Active Image because the Golden Image with smaller RollbackID to that in RoT is unusable for recovery.*
6. *Enable adc compensation feature on adc voltage sensors*
7. *Add filter to MPS sensor to ignore 0xff reading.*
8. *Change location name in NIC page (AIOM->System Slot A#, PCIe-> System Slot #)/ Fetch location name from [Chassis/1/Thermal]/ When thermal name include [AIOM], the location field should show [System Slot A#]. When thermal name include [AOC], the location field should show [System Slot #]./ When thermal name include [AOCUR\_NIC the location field should show [System Slot 0].*
9. *[128236] [ECO for IPMI] IPMI sensor GUI NIC ASIC naming doesn't match X12 temp sensor guideline\_1.0f/ [128318] [IPMI ECO 01.00.10] Some sensors naming not matched with SPEC*
10. *[128071] Onboard LAN MAC and information mismatched between on "Network AOC - Component info" and "Dashboard"*
11. *[127437] ECO --16914 -- 01.00.06 -- Webfunction -- Can't save "IPv6" format at "Destination Address" when protocol is "Redfish"(Alerts)*
12. *[126253]AC on/off have VcpuVRM message in ipmicfg -sel.log*
13. *[127970] STD---1.00.08sp-- An inaccurate popup message when setting SNMVP3 with special characters*
14. *[127063] [Samsung PM9A3 / FW GDC5302Q / SYS-120C-TN10R] missing "Manufacturer" and "Product Name" on IPMI*
15. *[127967] STD---1.00.08sp-- An inaccurate popup message when set user password same as user name*
16. *R: Correct AOCNIC slot mapping when system use 2U riser card. only AOC-2UR668G4, AOC-2UR68G4-i2XT, AOC-2UR68G4-i4XTS, AOC-2UR68G4-m2TS. Those riser card's slot1 mapping to system slot2, slot2 mapping to system1, slot3 mapping to slot3.*
17. *[128049] M.2 sensor does not report fan duty, cannot control fan speed. Rootcause is the M.2 in this system design is read from AOC Card, hence the M.2 sensor is naming with "AOCSSD" in sensor table Isit.*
18. *[128049] U.2 SSD does not report fan duty, cannot control fan speed Rootcause is the U.2 SSD in this system design is naming with "U2\_SSD" in sensor table Isit.*
19. *[128098] [IPMI] WebGUI Network AOC Slot Location is N/A*
20. *[127933] [AST2600 A3] system hang and lost BMC connection after update CPLD from WebGUI or SUM*
21. *[127872] Fan speed control should be "Optimal Speed" on IPMI Fan Mode Rootcause is the FanModeSupport*
22. *[127840] Beta -- 16728 -- 01.00.07 -- RADIUS Server Address Input Issue*
23. *[127840] Beta -- 16728 -- 01.00.07 -- RADIUS Server Address Input Issue Copy Project Issue Link*
24. *[127769] AOC-[URG4N4/2UR68G4]-m2TS Temp Sensor show N/A*

25. [127627] Missing GPU sensor on IPMI when A100-80GB GPUs are installed
26. [127495] Sensor naming on AOC NIC
27. [126819] AOC\_NIC Temp missing
28. [127031] The IPMI sensor threshold names are inconsistent.
29. [127203] [IPMI 0.20.03] Created "RAID1" not properly displays under IPMI while OS detects raid1 creating OK
30. [126819] AOC\_NIC Temp missing/ BMC also support the AOM\_AIOM\_2X8 adapter board
31. [126495] [AST2600\_A1chip+BMC A3 patch]AOC M.2 devices Sensor name does Not Match Supermicro\_X12 Temp Sensor Naming Guildline\_1.0f
32. [126711] "STD---BMC\_20210510\_01.00.06\_STDsp-- Data cannot be remove when updateing BMC thru SUM wih option Non-preserve "
33. [126709] "STD---BMC\_20210510\_01.00.06\_STDsp-- User is able to enter space when setting BMC Hostname "
34. [126710] "STD---BMC\_20210510\_01.00.06\_STDsp-- Syslog page is modifiable in System lockdown mode "
35. [126712] "STD---BMC\_20210510\_01.00.06\_STDsp-- Messy code when session timeout "
36. [126496] [AST2600\_A1chip+BMC A3 patch]AOC M.2 devices Sensor is not available in BMC web interface sensor list
37. [126552] ECO --16914 -- 01.00.05 (04/21/2021) --Different behavior when Port is turn OFF and ON status on Port page.
38. [126476] STD-16914- undefined string appended with raid type
39. [118815] BETA --16914 -- 00.10.65(10/16/2020) -- Power consumption graph are not match with value and time stamp.
40. [125971] BIOS ECO] BIOSECO Automation Test Failed.
41. [126179] ECO -16914-- 01.00.03(04/21/2021) – Floppy disk can be unmounted under system lockdown
42. [125390] IPMI Web - Virtual Media - Virtual CD-ROM can import invalid symbol for input option.
43. [126159] [EVT] FANA sensor cannot be detected.
44. [126344] [IPMI ECO] BMC all sensor reading is N/A
45. According to updated spec to modify Virtual CD-ROM help content
46. [125697] IPMI WebGUI Network AOC page only show two ports for AOC-AH25G-m2S2TM installed on AIOM1 slot
47. [126032] SYS-620P-TRT power fail LED is on
48. [126018] ECO --16914 -- 01.00.03 (04/21/2021) -- Display "LANG\_COMMON\_PAGE" string at HEL and MEL page. (Chinese simplified)
49. [125741] ECO --16914 -- 01.00.02 (04/12/2021) -- The LED blink (or unblink) occasionally will not sync at Storage page.
50. Implement and modify the GPU SENSOR\_TABLE to make the GPU1~6 to report it's FAN Duty.
51. [124447] AC onoff stress test fail
52. [125852] Multi Node page is empty in BMC Web GUI

53. [125906] ECO -- 16416 -- 01.01.07(04/09/2021) -- Tips cover save button when add rules at AD on Firefox windows maximized
54. [125298] Error message pop up after modified web port
55. [125625] MicroLP card will display Unknown Slot3 in Network AOC page
56. fix can't read M.2/ add GPU sensor
57. fixed the following PB issues: [124351] Componet information section is incorrect under CarrierBoard IPMI Web System Componet Overview page./ [125472] Std ?V 16914 ?V 1.00.02 ?V https redirect will not perform properly if not on default http/https ports/ [125510] STD-- 00.10.92 -- Downloaded Excel file shouldn't contain any event log when no category is selected/ [125582] [IPMI] DIMM Temp show N/A during ONOFF testing/ [125654] [Re-open/FW:01.00.02] SUM 2.5.2 (210112) MountIsolImage Fail
58. fixed the following PB issues: [124097] CPU Max Speed is abnormal in IPMI CPU Page/ [124285] Fail to see IPMI sensor reading of all AOC on all riser slots/ [125315] [IPMIECO 00.10.97] Network Page Health Status will display Critical with non-sensor AIOM card/ [125468] Std – 16914 – 1.00.02 – [webGUI] MEL order flipped after modifying IP Access Control/ [125469] Fix duplicate MEL entries for en/disable IP Access Control + extra rule added entry after disable/ [125470] Std – 16914 – 1.00.02 – [REDFISH] TelemetryService missing value in SupportedCollectionFunctions
59. fixed the following PB issues:
  - [123093] Beta -- 16914 -- 00.10.86 – Fail to add IPV6 link local address
  - [124673] STD --16914 -- 01.00.00(03/17/2021) -- Turn off "Web port" will auto turn off others port at same time.
  - [124677] STD --16914 -- 01.00.00(03/17/2021) -- IP Address not allow IPv6 format at "IP Access Control" page.
  - [124738] STD --16914 -- 01.00.00(03/17/2021) -- Unlock/Select button is enable at Virtual CDROM/SMTp Password/RADIUS/DDNS (System lockdown Mode)
  - [124882] Redfish SimpleUpdate API failed for BIOS firmware update
  - [124988] No Storage page on IPMI.
  - [125023] SYS-220U-TNR: Incorrect NVMe Blink Behavior after Hot Swap and Eject/Insert
  - [125040] [IPMI firmware BMC\_X12AST2600-ROT-5201MS\_20210327\_01.00.01\_STDsp ECO] System Board Power Consumption Graph X-axis "Time Stamp" is not matched with system "current time.
  - [125092] [BMC event] One 0xDC event description is incorrect. (Device changed on Other OEM Slot->Slot3->Slot2 - Assert) should be "Other components changed - Assert) on the X12DPL/X12DPG but X12DPT-PT46 pass.
  - [125129] ECO --16914 -- 01.00.01(03/27/2021) -- DNS Server IP/ DNS Server2 IP is configurable at Network page (System lockdown Mode)
  - [125183] ECO --16914 -- 01.00.01(03/27/2021) -- Couldn't remove selected file on the "Floppy Disk", due to out of the edge. Copy Project Issue Link
  - [125185] ECO --16914 -- 01.00.01(03/27/2021) -- Network (IPv4/SSL cert/SSDP/DDNS) and HEL(Warning!) check box is configurable for Radius user (Operator Privilege). Copy Project Issue Link

[125187] ECO --16914 -- 01.00.01(03/27/2021) -- IPv4/DDNS/HEL(Warning!) check box is configurable for Local/Radius user (User Privilege).

[125199] ECO --16914 -- 01.00.01(03/27/2021) -- Note box and hit message is overlap and out of edge on SSDP page.

[125202] ECO --16914 -- 01.00.01(03/27/2021) -- Sorting result is not correct of "Total duration" field (Task list).

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[124673] STD --16914 -- 01.00.00(03/17/2021) -- Turn off "Web port" will auto turn off others port at same time.

[124677] STD --16914 -- 01.00.00(03/17/2021) -- IP Address not allow IPv6 format at "IP Access Control" page.

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[125202] ECO --16914 -- 01.00.01(03/27/2021) -- Sorting result is not correct of "Total duration" field (Task list).

61. fixed the following PB issues:

[124869] no sensor info from expander on X12 90bay dual

[124913] [IPMI]noTemp sensor reading for onboard 10G

[124954] STD --16914 -- 01.00.00(03/17/2021) -- DNS Server2 IP default value is not correct.

[124962] [IPMI]Cannot open iKVM on X12DSC



*[124979] HDD triggers 100% fan speed with M.2*

62. *fixed the following PB issues:*

*[119556] IP Access Control is not allowed with IPv6 format.*

*[120037] IP Access Control is not allowed with IPv6 format.*

*[122169] BETA --18367 --09.00.02(01/07/2021) --Can't access BMC web via Ipv6 address*

*[122269] NVME devices temp sensor display error*

*[124166] SYS-220U-MTNR: Storage Monitoring not accessible on IPMI - hotplug after boot up w/o drive inserted*

*[124521] [HDD]DIMM sensor error during AC ONOFF.*

*[124593] STD -- 00.10.92 -- Fail to save valid value as SSDP Port*

*[124654] [SSM v5.0.0 build 1187- Redfish Call Home Test result shows some mismatching time in SSM SEL attention & Call Home Service Event Email vs. BMC*

*[124686] STD -- 01.00.28 -- Incorrect prompt message when set NTP Server with valid value*

*[124687] STD -- 01.00.28 -- Fail to remove invalid file under SSL Certificates page*

63. *bios firmware upgrade, refactored the codes.*

64. *[127349][AST2600 A3] Redfish Automation ATT test failed with 8 failures*

### **0.10.95 (03/26/2021)**

1. *New version release*