IPMI Firmware / BIOS Release Notes Form

Product Name	**X11DPX-T**
Release Version	**1.74.13**
Release Date	**08/02/2023**
Previous Version	**1.73.11**
Update Category	**Recommended**
Dependencies	**None**
Important Notes	**None**
Enhancements	**1. Prolong execution time on VRM utility.** **2. Block I2C master w/r command for VRM channel (channel 1).**
New features	**N/A**
Fixes	**1. [152393] STD-- 17212 - M11AST2500_03.17.02_build. 20220110 -- [security] "IPMI configuration backup file remote command execution** **2. [159191] - BRLY-2023-008 XSS attack [159192] - BRLY-2023-009 XSS attack [159193] - BRLY-2023-012 XSS attack** **3. Order: ECO20220419B ; SKU: SYS-7039A-I (X11DAI-N-P);** **5. [147147] VRM utilities can be used on X11QPH+ when battery is INSTALLED** **6. [147160] Virtual Media on HTML5 iKVM console is nonfunctional**

1.74.11(10/27/2022)

1.SYS-7039A-I (X11DAI-N-P) with GPU sensor supported;

2.Block I2C master w/r command for VRM channel (channel 1).

3.Prolong execution time on VRM utility.

4.[147147] VRM utilities can be used on X11QPH+ when battery is INSTALLED

5.Disconnecting problems when switch from 1G switch to 100M switch.

6.[147160] Virtual Media on HTML5 iKVM console is nonfunctional

1.74.02(02/25/2022)

1.1.74.01 is obsolete.

2.Support 39xx, 38xx storage card sensor reading.

3.[129981] STD -- 17212 -- 01.00.14 - Anonymous account or null value can be created on X11 and X12. [130390] STD -- 17212 -- 09.11.50 BETA - [Security] Buffer overflow in ipmi_lan ASF protocol. [130823] BETA -- 17212 -- 07.30.31 -- [Security] resolv.conf won't be deleted, it may cause a potentially DNS Hijacking.

4.Remove SSH weak MAC Algorithms Enabled.

1.73.13(09/07/2021)

1. A10, A30, A40, A6000 Nvidia card support.

1.73.08(12/23/2020)

1. Support PLDM sensor reading at AOC NIC cards.

2. [108961] [SUM]SUM 2.5.0(2020/04/17) execute Get GpuInfo command function failed

3. [113136] "AOC_NIC_Temp" IPMI sensor missing during AC on/off test.

4. Support AMD MI100 GPU HBA temperature display if it is hotter than on-die temp.

5.Support redfish 1.8 API.

6.Wrong License for HTML5 VM.

7.[103783] For long hostname string, there's different between X11 and X10 FW.

8.[102923] [BIOS/IPMI ECO] sum test fail.

9.form 299-00-190416-001 BMC KCS Interface Security Solution (299-00-190416-001) BMC KCS Interface Security Solution V0.8.docx

10.form 299-00-190605-001 WebUI_Button_Requirements_v1 (299-00-190605-001) WebUI_Button_Requirements_v1.docx (299-00-190605-001) WebUI_Buttons_Requirement_BMC_check_list.docx

11.form 299-00-190723-001 AOC NVMe M.2 Sensor Reading (299-00-190723-001) AOC NVMe M.2 Sensor Reading.docx

12.SMC_IPv6_and_FQDN_Address_Configuration_User_Guide_ForPM(1.2).docx

13.form 299-00-190604-001 SNMPv3_SNMP MIBs features_1.1

35.Standard -- 8971 -- 1.71.06 -- SMASH only take up to 403 characters before disconnecting

14.[115672] Unable to set user name at a maximum of 16 characters Error message 'User name must be 4~16 characters.' should be 'User name must be 4~15 characters.'

15.[109038] BMC issued multiple alerts when hard drive failed.

16.[107022] AOC_M2_temp sensor reading is missing from standard IPMI fw for M.2 NVMe Installed in "AOC-SLG3-2M2". form 299-00-190723-001 AOC NVMe M.2 Sensor Reading (299-00-190723-001) AOC NVMe M.2 Sensor Reading.docx

17.[121015] IPMI ECO: Failed alert will Not show up in 'Trap Receiver'. [120988] SNMP alert is not working.

18.[113136]"AOC_NIC_Temp" IPMI sensor missing during AC on/off test. help to commit, we will retry NCT6683 command.

19.1. Disable the function of Mulitcast. 2. Change default SSDP setting to enable.
20.[115460] ECO --10922 -- 01.52.06(07/27/2020) -- SSL Certification confirm window has typo
21.[115302] user permanently lock out after exceeded lockout times and by SMCIPMITOOL
22.[115893] Redfish automation: 1 test case failed [115833] [IPMI ECO 1.73.04] Redfish API update
[115636] [IPMI ECO] Redfish automated test failed.[114398] Fail to set LDAP Server Address through
SMCIPMITool
23.Fixed bugs that Fan control can't work for AOCM2.
24.[113732] SMT_X11AST2500_173_02 bmc fw will cause my linux OS failed to reboot.
25.[111750] IPMI ECO Automation fail caused by KCS error" [111536] IPMIECO Automation test failed
on firmware v1.73.02 [110191] IPMI ECO automation test failed.
26.[109897] IPMI displayed the same location slot 2 for two AOCs at the different bus numbers.
[108731] The "Model:" item reported "UNKNOWN 0x00000000" in the controller information table.
[108699] The "Manufacturer:" item displayed "Illegal Vendor ID" for the controller information.
[108037] Vendor information is not displayed correctly for HDD SATA drive at Physical Drive View.
[101720] Device 0 and Device 1 should not be displayed at the same location slot 2.
27.[108062] Installed NVMe SSD's not getting displayed in latest IPMI FW Rev : 1.73.01 (3/16).
28.OOB Bios update function failed via SUM 2.5.0.
29.[107333] The Storage Monitoring page always show up even if no storage card presence.
30.[107287] IPMI ECO automation test fail. [105109] IPMI ECO Robot test fail.
31.form 299-00-190118-001 BMC FW Q1 2019 features (299-00-190118-001, No. 4) Storage UI
change.docx
32.form 299-00-191104-001 NVIDIA GPU monitoring and Network page info on UI (299-00-190118-
001, No. 1) Supermicro NVIDIA GPU support Feature Spec_1.1.docx (299-00-190118-001, No. 2)
Network AOC info on BMC UI.msg
33.form 299-00-190607-001 Device Auto-Discovery within a Rack for RSD Support (299-00-190607-
001) Device Auto-Discovery within a Rack for RSD Support.doc
34.form 299-00-190118-001 BMC FW Q1 2019 features (299-00-190118-001, No. 1)
SMC_HTML5_User_Guide_ForPM(0.1).docx (299-00-190118-001, No. 6) BMC
UI_Redfish_SystemComponent health_status_20190814.docx
35.form 299-00-190118-001 BMC FW Q1 2019 features (299-00-190118-001, No. 5) Marvell SE9230
Spec.docx.
36.form 299-00-190220-001 Signed299_Requested BMC FW modification (299-00-190220-001, No.2)
IPv4_IPv6_Stack_Selection.docx (299-00-190220-001, No.3)
Add_IPv4_IPv6_Information_Under_System_Page.docx
37.[108961] [SUM]SUM 2.5.0(2020/04/17) execute Get GpuInfo command function failed.
38.DIMM temperature sensor value will shows 255 degree randomly.
39.Fix Security fix.

1.71.11(10/25/2019)
1. Added BMC firmware solution to program and store unique pre-programmed password.
2. Fixed inconsistent behavior for factory function.
3. Corrected message for Delete User Without Selecting Slot.
4. Fixed ability to clear unique password using raw command 0x30 0x74 0x2.
5. Fixed ability to remove unique password set bit by IPMITool raw command.
6. Corrected response 204 when posting factory default with invalid option value on Redfish and
response 503 when posting factory default with empty body on Redfish.
7. Fixed failure of Java KVM to block Virtual Media section and show warning message when virtual
media port is disabled.
8. Fixed missing new load factory default options for IPMICFG/SMCIPMITool/Redfish for IPMI firmware
1.71.7.

9. Corrected verification of the concatenate string of unique password.

1.71.6 (8/30/2019)
1. Added patch for CVE-2019-6260 pantsdown.
1. Added support for third number (build version) of IPMI firmware version.
2. Added BMC Account Security.
3. Added modification for event severity.
4. Enabled sending all event logs (Health & Maintenance) to Syslog server.
5. Added UefiPxe to Redfish System boot order.
6. Added support for DCPMM (AEP DIMM) sensor reading.
7. Fixed failure to preserve the BMC configuration from release version to new version.
8. Added security fix on SSH-CLP.
9. Fixed problem of SEL showing error message after AOC-S3108 updates firmware.
10. Fixed multiple vulnerabilities with Supermicro BMC Virtual Media.
11. Corrected maximum allowed password length shown for /redfish/v1/AccountService MaxPasswordLength.
*12. Fixed incorrect KEYPAD * and + key maps via IPMI iKVM console and KEYPAD on physical keyboard.*
13. Fixed problem of IKVM/HTML5 being disabled.
14. Fixed issue with IPMI web formatting for system.
15. Fixed failure of STAC Redfish automation test and inability to access Redfish with RADIUS session after factory default.
16. Fixed problem of IPMI RADIUS authentication client returning Localhost IP In NAS-IP-Address/, malfunction of IPMI RADIUS authentication if authentication is delayed for over 3 seconds, and problem of IPMI RADIUS authentication violating attribute 26 specification.
17. Fixed failure of DPCMM sensor reading and corrected DPCMM thermal curve.
18. Fixed incompatibility of IPMI after update.
19. Fixed missing leading zero in minor version of /Managers/1/ FirmwareVersion.

1.69 (4/10/2019)
1. Fixed inability to read I2C temperature sensor of LSI 3108 for systems or to see storage monitoring WebGUI.
2. Fixed issue with WebUI formatting.
3. Corrected the sensor Qty of BMC.
4. Fixed mismatch of Redfish FullList Allowed Operation.
5. Fixed problem of false reports from 10 HDDs pulled at the same exact second being reported as degraded controller.

1.67 (3/11/2019)
1. Added patch for CVE-2019-6260 pantsdown.
2. Added support for new Uboot code version.
3. Fixed issue of changed default passwords to not work remotely if they contain !@#$%^&.*
4. Fixed malfunction of KVM and remote control after using SSH in SMASH with AD account.
5. Fixed problem of degraded & unavailable SEL event appearing after Broadcom 3108 firmware is updated.

1.64 (1/16/2019)
1. Migrated the IPMI Event Log to the URL "redfish/v1/Systems/1/LogServices" in Redfish and changed the name "Event Log" to "System Management Log" in Redfish and Web UI.
2. Added BMC Event Log support in Redfish and changed "System Event Log" to "BMC Event Log" in Web UI.

3. Changed the naming for "Health Event Log" and "Maintenance Event Log" in Web UI.

4. Updated the threshold of the AMD GPU (MI8/MI25).

5. Added support for TaskService feature during BMC and Broadcom storage controller update in Redfish.

6. Added parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking.

7. Added support for Redfish SimpleUpdate for BMC and BIOS firmware.

8. Changed FirmwareInventory to SmcFirmwareInventory to prevent user confusion with Redfish standard definition.

9. Changed NodeManager to SmcNodeManager to prevent user confusion with Redfish standard definition.

10. Set the MAC address format to revert to "xx:xx:xx:xx:xx:xx" in order to prevent backward compatibility.

11. Added support for saving 3108 storage controller status event.

12. Added support for NIC/GPU Asset Information on Redfish.

13. Added hardware component status in Redfish/WebGUI.

14. Added support for TaskService feature during BIOS update in Redfish.

15. Added support for Node Manager feature in Redfish.

16. Added new feature for GUID/BoardID in Redfish.

17. Added new feature for event data extension in Redfish.

18. Added OEM event Description and Severity in Redfish/WebGUI.

19. Added OEM Event Alert.

20. Provided Event Acknowledgment for the events with Warning/Critical severity level.

21. Added support for Intel RSTe RAID status reporting for TAS + BMC Firmware Support TAS ver. 1.5.2 and extended SEL explanation for sensor type 0x0D (Drive Slot).

22. Enabled clearing all system event logs without generating any log and dumping all the system event logs.

23. Fixed the problem of inconsistent return codes (200, 500, 503) being displayed from the BMC when using ApacheBench.

24. Corrected Broadcom 3108 storage controller with BBU (battery unit) install on motherboard to generate one BBU de-assertion event upon every BMC system reboot.

25. Fixed inability to open the 4th IKVM session in Redfish.

26. Fixed inability to remove DNS server IPv6 address.

27. Fixed failure of NVMe eject and insert feature in Event log.

28. Fixed incorrect message appearing on iKVM/HTML5 page when disabling IKVM port.

29. Fixed incorrect display on AOC NIC sensor threshold.

30. Fixed problem of the system showing as normal when the power fails.

31. Fixed failure to update SSL certificate file.

32. Fixed problem of 200 being returned when PATCH PowerLimit reaches over 32767 in Redfish.

33. Fixed failure of NVMe temperature sensor reading to decrease.

34. Fixed problem of IPMI Web showing system warning after updating firmware to 1.54.

35. Fixed problem of ME firmware crashing when running SUM test.

36. Fixed inability of IPMICFG and IPMITool to change IPMIIPv6 mode.

37. Fixed inability to update 3108's firmware over BMC's Web page if Physical/Logical HDD device is on the card.

38. Fixed problem of the help page of iKVM/HTML5 console not supporting multi-language content and only supporting English.

39. Fixed inability of AOC NIC Threshold to follow Thermal Guidelines.

40. Fixed failure of Redfish automation test.

41. Fixed failure of IPMI SOL.

42. Fixed multiple Web UI formatting issues.

43. Fixed wrong behavior of the IPMI Web Date & Time configuration.
44. Fixed issue of the system status not referencing PSU state when AC is lost.
45. Fixed issue in Redfish that caused the session to timeout after accessing the System Event Log page and caused the BMC to constantly reboot.
46. Fixed inability to detect MI25 GPU.
47. Fixed issue of "Save uncompleted" message appearing when changing time and saving it on IPMI Web.
48. Fixed problem of DCMS license activation showing inconsistent results between IPMI firmware 1.52 and 1.61.
49. Fixed problem of WebUI disappearing after selecting simplified Chinese language.

1.52 (5/3/2018)
1. Revised Redfish firmware inventory (BIOS/BMC update).
2. Revised Redfish "Actions" for clearing event log.
3. Removed FPGA VRM temperature sensor monitoring.
4. Added support for new Redfish firmware inventory (3108 storage controller) to update firmware.
5. Added new Redfish features for downloading and uploading IPMI configuration.
6. Added adaptive temperature threshold in SDR for drives connected to 3108.
7. Enabled AC Power On Event log.
8. Added Redfish memory information feature.
9. Added enable and disable options for 3108's JBOD mode over BMC's Web page and Redfish API "/redfish/v1/Systems/1/Storage/HA-RAID".
10. Added support for BBP2 feature.
11. Added Intel OTA feature to fix failure of SMC OOB TPM Provisioning via IPMI feature for customized provisioning table.
12. Fixed missing AOC card temperature when power first turned on by Intel(R) Xeon(R) Gold 6142F CPU at 2.60GHz.
13. Fixed failure of Redfish API test.
14. Set AC Power On Event log to be reported when BMC executes cold reboot.
15. Changed UTC zone time by SMCIPMITool commands.
16. Enabled update of 3108's firmware over BMC's Web page.
17. Fixed incorrect power readings on "power consumption" page.
18. Fixed failure of fan PWM.