

# BMC Firmware Release Notes Form

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| <b>Product Name</b>     | <b>X12DGQ-R</b>  |
| <b>Release Version</b>  | <b>1.05.05</b>   |
| <b>Build Date</b>       | <b>6/10/2024</b>   |
| <b>Previous Version</b> | <b>1.04.12</b>   |
| <b>Update Category</b>  | <b>Recommended</b>   |
| <b>Dependencies</b>     | <b>None</b>  |
| <b>Important Notes</b>  | <ul style="list-style-type: none"><li>• <b>SMC-2024010010 Command Injection attack</b></li><li>• <b>SMC-2024010011 XSS attack</b></li><li>• <b>(CVE-2023-33413) SMC-2024010012 Command Injection attack</b></li><li>• <b>The BMC configuration file generated in BMC firmware older than Rev. 01.04.xx can't be imported.</b></li></ul>  |
| <b>Enhancements</b>     | <ol style="list-style-type: none"><li>1. <b>[ENGINEERING] Prompt will now show in Redfish and Web GUI whenever RBID increase has been detected on uploaded firmware.</b></li><li>2. <b>OpenJDK support.</b></li><li>3. <b>[ENGINEERING] – Added RSA2048 key for license server from new IT HSM.</b></li><li>4. <b>Enhanced GPU Redfish API value.</b></li><li>5. <b>[ENGINEERING] – AOM-PIO-i2XT should not support 1G Dedicated LAN speed.</b></li><li>6. <b>[ENGINEERING] – Empty ufn in backup or golden inventory.</b></li></ol> |

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|                     | <p>7. [ENGINEERING] – Added SPS version and Microcode version to firmware inventory.</p>   |
| <p>New features</p> | <ol style="list-style-type: none"> <li>1. [ENGINEERING] – Redfish Upgrade 2021.2, RF1.14.</li> <li>2. [ENGINEERING] – Upgraded SEL to 1.38 and merge SEL search method to one function.</li> <li>3. [ENGINEERING] – Upgraded MEL to 1.07 and added MEL 70&amp;368. Recorded wrong MEL number when uploaded IPMI config unsuccessfully.</li> <li>4. [ENGINEERING] – Redfish support BMC each field v1.33/ v1.34.</li> <li>5. [ENGINEERING] – Supports AOC-S400G-B1C.</li> <li>6. [ENGINEERING] – Added Property "Product" for /redfish/v1.</li> <li>7. [ENGINEERING] – Enabled USB LAN 2 options feature (WEB).</li> <li>8. [ENGINEERING] – Feature supports LDAP StartTLS.</li> <li>9. [ENGINEERING] – Supports KCS disable function.</li> </ol>   |
| <p>Fixes</p>        | <ol style="list-style-type: none"> <li>1. Power LED does not stay solid after initial boot up.</li> <li>2. MEL "Illegal access due to CSRF" generated when host interface IP was configured.</li> <li>3. [ENGINEERING] – BMC Host Interface became "Disabled".</li> <li>4. [ENGINEERING] – Added MEL after changing Host Interface "RNDIS Connection" or "CDC-ECM Connection".</li> <li>5. SUM – Failed to Set LAN AutoConfiguration DHCPv6Mode Configuration.</li> <li>6. Unable to load SMTP page.</li> <li>7. Redfish test fail on Check AccountService Accounts Method Privileges due to unexpected status code return.</li> <li>8. Operator cannot have Full Access to Event Log.</li> <li>9. MEL is incorrect when restored to factory default. (RAW 30 41)</li> <li>10. Logging out with enabled SMTP alert will create three MEL entries.</li> </ol> |

11. Null user test failed, created null users are not displayed on users page.
12. SUM – Failed to Set LAN AutoConfiguration DHCPv6Mode Configuration.  
Failed to disable IPv6 autoconfig using SMCIPMITool.
13. Notifications (SNMP) in Help page is inconsistent with Actual WEB page.
14. IPV6 – Failed to set Alternative DNS server IP through SMCIPMITOOL.  
[SMCIPMITOOL] BMC disconnected for a while when setting up IPv6 DNS 2 via command.  
SMCIPMITOOL DNSv4 mode RAW commands doesn't work.  
SMCIPMITOOL The command return code doesn't follow the specification.
15. Validate Access with OOB and No License should switch to newer UI behavior.
16. [ENGINEERING] – Supported NVIDIA RTX 4000 Ada, RTX 5000 Ada, RTX 6000 Ada.
17. [MEL-0093] String does not match with LAN Interface option naming.
18. MEL is incorrect when configuring Host Interface.
19. No related MEL when disabling TSIG Authentication.
20. [ENGINEERING] – The NVMe temperature will be 45°C sometimes.
21. Set 0.0.0.0 to DNS Server IP would be replaced by valid DNS Server2 IP after setting is saved.  
After saving network IPv4 DNS Server IP as 0.0.0.0, the field does not display 0.0.0.0, also no MEL.
22. Incorrect GPU Index from IPMI.
23. HDD Temp/HDD Temp sensor will show N/A when executing cburn-87 DC on/off test.

24. Lease changed the upper critical temperature to 77°C for E3.S SSD drive sensor.
25. Changed the upper critical temperature to 80°C for Samsung NVMe drives.
26. Set correct format but invalid NTP Server IP, error message return 'Oops' instead of [MEL-0255].
27. [GUI] Virtual Media/Network/User (SNMP) in Help page are inconsistent with Actual WEB page.
28. Duplicate MEL when setting up Dedicated Link Speed and 1G Full Duplex MEL does not match with option name.
29. When creating RAID level 10/50/60(Span Depth=3), the "RAID level" information on the BMC Web GUI is incorrect.
30. [MEL-0104] is not listed after successful BMC update without all configurations preserved.
31. License required behavior/message does not quite match with SW-PM definition.
32. [ENGINEERING] – Modified Redfish privilege and licensecheck for Redfish\_1\_11\_API\_full\_list\_20230918 update.
33. BIOS attribute value is overflow.
34. [ENGINEERING] – Fixed Systems LogService entry empty data.
35. Adding ACCEPT/DROP rules with duplicate IP Address/Mask will get blocked.
36. [GUI] Password can't be the reverse of the User name, error return "Oops! Something went wrong." Does not quite match with the situation.
37. Trash can should be greyed out when using login with User privilege.
38. [MEL] Added RemoteGroup/User Rules MEL does not follow the same MEL SPEC version definition.  
SNMPv3 (Notifications) Authentication Protocol/Encryption Protocol naming are inconsistent with MEL.

39. Help page does not list related info of SSDP and LLDP.
40. Added New User, keep showing warning tips after unselecting Account Type 'SNMP'.  
Keeps showing warning message after unselecting SNMP account type when adding a new user.
41. SMCIPMITool SMSTC test fail on X13SEVR-SP13F.
42. Error message display when mounting image.  
Mount ISO Image failed on X12DPT-PT6.  
Unable to connect virtual media when only setting up 1 or 2 virtual machine connections.
43. MEL is incorrect when modifying IPV4 DNS Server2 IP.
44. Abnormal behavior after clicking Save button for many times to delete a task.
45. The NVMe info is incorrect during NVMe insertion and ejection.
46. Physical View HDD temp missing from BMC.
47. Deleting DNS Server and Server2 IP and saving doesn't generate MEL.
48. Failed to save valid IPv4 address for static IP.
49. Non-set SSDP related MEL would be triggered when setting up SSDP.
50. BMC Web UI automation test failed.
51. Enabled Auto Daylight Saving failed but MEL shows enabled successfully.
52. The title in Virtual Media page doesn't follow UI design.
53. GPU version number dropping issue.
54. [ENGINEERING] – Fixed RMCP connection lost during SPM test.
55. IPMI shows the system's power consumption way too low.
56. IPMI manufacturer name shown as "unknown".
57. Virtual Media Unmount Device modal buttons show "Close" and "Save" instead of "Yes" and "No" even though it asks, "Are you sure you want to UNMOUNT the Device?"

58. [ENGINEERING] – No U.2 NVMe temperature when installing INTEL SSDPE2MD800G4.
59. Connect button doesn't work on the Virtual Media page.
60. IPMI ECO Redfish automation has 4 fails.
61. [GUI] Layout of Dashboard page is not aligned.
62. [GUI] The link speed description of Help info does not quite match with the Spec.
63. License Activate page no change wordings for "New Private Key" to "New Product Key".
64. [SMCIPMITOOL] The return code behavior of execute "IPMI LAN IPv6 clear" is inconsistent.
65. [ENGINEERING] – No main menu on IPMIWeb when using iPhone to open X13SEDW IPMIWebGUI.
66. Virtual Media: When there are duplicates with the same Host and path, they are blocked from mounting with an error message.
67. 'Failover' option missing.
68. Missing ProcessSummary "Model" value in /redfish/v1/Systems/1.
69. [ENGINEERING] – Fixed VirtualMedia does not allow domain URL with port.
70. Set power limit 0 to Node Manager failed.
71. Toggling the system power will create repeated "Host FW password has been removed / auto-generated" entries in the MEL.
72. [ENGINEERING] – Supported one HDD to create RAID 0.
73. [ENGINEERING] – VirtualMedia SMB does not support mount with port.
74. PSU health status is abnormal when removing power cord.  
The power Fail alert function didn't work.  
Can't display event log after pulling out power cord.
75. Set invalid IPv6 Static Address RAW command does not return CC.  
[ENGINEERING] – Fixed OEM command switch IPv6 stateful mode will not auto get DHCP IPv6 IP.

76. "License Activation" sub menu didn't rename to "License Management".
77. BMC firmware v01.04.09, IKVM function-bar is not working at all.
78. DNS Server 1 and 2 IP ability to be set to duplicate values via SMCIPMITool.
79. Web Function – 0.0.0.0 is not allowed to be saved in 'Server Address'.
80. Server Address field can fill in over 255 characters which is not match with the Spec definition. (AD and LDAP)
81. It allows class D, E of IPv4 addresses for DNS Server IP setting.
82. Executing TC 3053 failed to mount ISO file due to IPMI execution exception. (ExitCode=148).
83. SAS drives are no longer listed under storage monitoring via Web GUI.
84. [ENGINEERING] – WEBUI HDD Temp and SSD Temp show null and correct Drive Status.
85. [ENGINEERING] – Redfish 2021.2 failed to GET  
/redfish/v1/UpdateService/FirmwareInventory/Backplane\_1\_CPLD\_1.
86. Misspelled "necessary".
87. [ENGINEERING] – EventService RedfishEvent Https allows self-signed CA.
88. [ENGINEERING] – X12 ALL sensor N/A in BMC 01.04.15.
89. When a license is required, clicking Cancel redirects to dashboard. Should stay on same page, not redirect, or redirect to appropriate page for better user experience.
90. Updating the Backplane, Midplane, and Fan/CPU/AIOM/AOM board CPLD, all should now present MEL ID with the MEL
91. [GUI] "BMC Reset " help info page description is inconsistent with UI Spec and BMC web.
92. PSU info missing from WebGUI after hotswap.

93. SMCIPMITOOL has 1 TC fail.
94. [ENGINEERING] – Web UI Prompts – 11162023.
95. [ENGINEERING] – Supports AOC-E810-XXVDA4.
96. [ENGINEERING] – Removed Action of ResetToDefault parameter "PreserveNetwork".
97. Sensors threshold '\LowNR\'', '\Low CT\'', and '\High NR\'' shown as empty for Temperature Type.
98. [ENGINEERING] – Avoided wrong string and etag format in Redfish and Correct Redfish API deprecate and create.
99. [ENGINEERING] – Made PreserveNetwork backward compatible as Redfish 2020.
100. [Security] The vulnerability of XSS attack on KVM help page at X14SBM.  
[Security] The XSS attack on local storage value at X12STW.
101. DDNS accepting invalid characters.
102. [ENGINEERING] – Fixed LAN setting will change when reboot BMC.
103. Redfish @odata.etag properties does not include surrounding "" double quotes.
104. [ENGINEERING] – Updated Fan list sort rule.
105. SEL Errors before System boots into Windows 2025.
106. [ENGINEERING] – The System button of Dashboard no reaction.
107. [ENGINEERING] – Updated slot format of Physical Storage view.
108. [ENGINEERING] – Adjusted license of OemDumpService.Collect.
109. [ENGINEERING] – Updated the SSDP Redfish version and fixed possible exception.
110. DDNS showing incorrect error message.
111. FAN icon does not change to Red Critical when FAN failed happened on BMC WebUI.