

## BMC Firmware Release Notes

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<b>Product Name</b>	<b>X12STW-F/IF</b>
<b>Release Version</b>	<b>1.03.10</b>
<b>Build Date</b>	<b>8/9/2023</b>
<b>Previous Version</b>	<b>1.02.50</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>None</b>
<b>Enhancements</b>	<ol style="list-style-type: none"><li>1. When NTP is disabled, the user cannot modify the time zone from the web.</li><li>2. KVM launched and closed MEL should display the user ID.</li></ol>
<b>New features</b>	<ol style="list-style-type: none"><li>1. Added Hot Spare in Redfish API and WEBUI.</li><li>2. Upgraded the Ethernet Interface version from v1.6.2 to v1.6.3 to align with specifications.</li><li>3. Auto Daylight Saving Time.</li><li>4. Task Queue and Task List.</li><li>5. Redfish 2020.3 related feature. Network enhancement feature. MEL 1.05 and SEL 1.36.</li></ol>
<b>Fixes</b>	<ol style="list-style-type: none"><li>1. NIC health transition event logs during DC on/off.</li><li>2. Accept IP access control with prefix 0.</li><li>3. Modified the data length check of OOB preserve command - 0x30 0xA0 0x15.</li></ol>

4. Corrected the UUID format.
5. No MEL is generated when modifying the SAS BIOS Boot Mode.
6. BIOS version has capital letters on the dashboard page.
7. Uploaded new SSL certificate, and BMC will not reset by itself.
8. Syslog Sever is able to clean to empty after saving a valid IP address.
9. Help content info of "RMCP Port/TCP&UDP Ports" doesn't match on the web GUI.
10. Port saves without changes error message.
11. Should not show warning message after changing syslog Server with an illegal syslog server.
12. CPU In Yellow Health Status After Flashing IPMI FW 1.00.28 [151970] - "System" tab on IPMI web GUI keep turning yellow during "On/Off" test, with only on IPMI version 01.00.28.
13. BMC 1.02.55 failed to auto switch SAS controller i2c mode into PCIe mode. AOC-S3908L-H8iR-16DD is not recognized by IPMI due to OOB protocol auto switch is not functional.
14. There should be a MEL message after mounting a CD-ROM image has failed.
15. IPMI configuration web session doesn't save.
16. MEL when saving hostname.
17. All sensors dropped during the DC On/Off testing.
18. Newly added link IPV6 addresses are unavailable.
19. The Introduction about Remote Control is incorrect at HELP page.
20. BMC resets for new SSL certificate to take effect.
21. There should be a prompt message when the "Prefix Length" is duplicated.
22. Help content info of "RMCP Port/TCP&UDP Ports" doesn't match on the web GUI.
23. Extended the size limitation of certificate and key files.
24. Removed rollback ID configuration page. Rollback ID always updates when the firmware is updated.

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|  | <p>25. Failed to install the OS by virtual media HTML5.</p> <p>26. Duplicated Data prompt message doesn't correspond on selected "Policy" (ACCEPT/DROP).</p> <p>27. Fix Content-Length value is different from the Message Body length.</p> <p>28. Response is incorrect when clear IPv6 null address via smc ipmi tool.</p> <p>29. BMC can't get correct NIC healthy.</p> <p>30. Prompt message should be translated to Simplified Chinese and Japanese at IP Access Control. Duplicated Data prompt message doesn't correspond on selected "Policy"(ACCEPT/DROP).</p> <p>31. No MEL is generated when attempting to login with a wrong password on the web.</p> <p>32. SOL text is shown incorrectly on BH12SSi platform.</p> <p>33. Error HTTP message format at X13 and X12 redfish (/redfish/{string}.IKVM)</p> <p>34. A warning message should not pop up when adding a different "Policy" with same IP/Prefix Length.</p> <p>35. The password for factory settings should be a unique password.</p> <p>36. The frame of "SNMPv2" help window is not complete at the right hand side (Japanese).</p> <p>37. Return two json data and cause error reply at H12 redfish (/redfish/v1/AccountService/Accounts/{num}).</p> <p>38. Fixed the event log time zone when it is incorrect and doesn't follow the latest MEL specification.</p> <p>39. Enable Stateless Address Auto Config in Redfish Ethernet Interface.</p> <p>40. Set HTML5 console as the default selection.</p> <p>41. IPv6 auto-config option will be enabled after set others network parameters.</p> <p>42. Login RADIUS account.</p> <p>43. IPMIECO Automation test failed. IPMI ECO automation test failed.</p> <p>44. During System Lockdown, Date, Time Auto Daylights Savings, and Time switch are not disabled when they should be.</p> |
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	<p>45. Operator health event log advanced settings disabled; License activation Upload button enabled for admin even when no private key file is selected; and one more.</p> <p>46. Enable TSIG Authentication switcher doesn't disable when DDNS is off.</p> <p>47. Failed Login Attempt Lockout Threshold radio buttons aren't all disabled for Operator and User privileges.</p> <p>48. Syslog packet doesn't follow RFC3164.</p> <p>49. SUM test TC 002 failed due to the NTP information not matching after preserved IPMI firmware update. BMC IP changed after executing SMCi PMI Tool IPMI raw 30 42. TC0005 call set LAN Mode Command failed. It has an Error message:145 != 0 "Can't connect to 10.184.14.229" on the X13DSF-A.</p> <p>50. Radius packet doesn't follow RFC2865.</p> <p>51. Authentication Protocol and Encryption Protocol Range settings don't match Wiki specification (Each field 1.32) for SNMPv3.</p> <p>52. The error message is incorrect when launching more than 4 iKVM sessions.</p> <p>53. VM cannot save valid IPv6 address with port.</p> <p>54. iKVM default setting is not in HTML5 after setting the factory default.</p> <p>55. Number should be translated to Simplified Chinese and Japanese at Virtual Media page.</p> <p>56. Export to Excel button should be translated to Simplified Chinese and Japanese at Sensor page.</p> <p>57. Username string length only supports up to 16 characters and not 31 for SNMPv3.</p> <p>58. Auto Daylight Savings Time switcher doesn't disable for the Operator and User privileges.</p> <p>59. Will display a prompt window similar to the one for switching on lockdown mode.</p> <p>60. BMC doesn't load the default settings when pressing the UID for 12 seconds.</p>
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	<p>61. System Lockdown / System Lockdown Virtual Media mount and unmount are enabled.</p> <p>62. Buttons and icons of the Virtual Media page can operate while System Lockdown is enabled.</p> <p>63. TC 2063 IPMI eco, BMC LAN disconnected after changing LAN mode in IPv4 Static. IPMIECO Automation test failed. Redfish automation test failed. Redfish ATT test fail.</p> <p>64. BMC GUI sensor arrangement order is not stable.</p> <p>65. Fix IPMI LAN set ipsrc for dhcp to static IP missing.</p> <p>66. Unable to close pop-up window under System lockdown mode.</p> <p>67. AD related MEL should not be shown when setting up LDAP and Radius.</p> <p>68. User is able to click the delete button on system lockdown mode.</p> <p>69. DMTF/Redfish standard API support test failed.</p> <p>70. Web GUI crashed after uploading product key with invalid file.</p> <p>71. IP changed after running raw command.</p> <p>72. Network Setting page can now save with only one dedicated LAN speed capability.</p> <p>73. System Lockdown Storage Monitoring Physical View buttons are enabled while drive selection is disabled.</p> <p>74. Expected length of Service Addresses to be one but is actually three.</p> <p>75. MEL Log message is incorrect when configuring Syslog. Saving Syslog produces MEL even when there are no changes in the values.</p> <p>76. Chassis intrusion reset button is not grayed out when System Lockdown Mode is on.</p> <p>77. BMC doesn't reboot automatically after the update.</p> <p>78. SYS-221BT-HNR AOC Health Status Issue.</p> <p>79. Hostname update/remove has duplicate record in MEL.</p> <p>80. Virtual media OEM command issue.</p> <p>81. Perform the "-lani 0" command on X13DET-B will show the error message "Failed to set the LAN interface. Completion Code=FFh."</p>
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	<p><b>82. Redfish has three TC fails.</b></p> <p><b>83. Some function of Account Services/Network/BMC Settings could be configurable by "User Privileges."</b></p> <p><b>84. Block reserved address when patching IPv6StaticAddresses property of Ethernet Interfaces.</b></p> <p><b>85. User only can enter 63 characters for SNMPv3 Authentication Key and Encryption Key.</b></p> <p><b>86. IPMI ECO Automation test failure.</b></p> <p><b>87. Sensors changed abnormally once sensor type category is selected.</b></p> <p><b>88. Redfish Automation failed.</b></p> <p><b>89. Redfish Automation test fail.</b></p> <p><b>90. MEL is incorrect when the Host Interface is disabled.</b></p> <p><b>91. Virtual media display "This function requires SFT-OOB-LIC license!" tip when both DCMS and OOB keys have activated.</b></p> <p><b>92. IP Access Control page can be edited/deleted by user privileges.</b></p> <p><b>93. IPMI Web GUI main menu ordered incorrectly in Safari.</b></p> <p><b>94. Redfish automation has one fail. SATC Redfish Automation test failed.</b></p> <p><b>95. BMC GUI "System Health" status doesn't change to critical condition when the system fan fails.</b></p> <p><b>96. Dynamic DNS Server Address default value doesn't match with each field definition.</b></p> <p><b>97. Failed to upload valid TSIG files.</b></p> <p><b>98. Syslog packet doesn't follow RFC3164.</b></p>
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## **Release Notes from Previous Release(s)**

### **1.02.50 (11/17/2022)**

1. Added the network AOC link in the WebUI.
2. Redfish method to set BMC LAN interface.
3. It should be forbidden to input a decimal point value at "Host IP Address."
4. The exclamation "!" symbol is not allowed in the username, which does not match with specifications.
5. The "Duplicated rule" prompt message and its behavior are not the same as the X12 UI SPEC definition.
6. Prevented unspecified address and loopback address are added to static IPv6 addresses.
7. SMC IPMITOOL and WEB have different naming of power supply in inventory items.
8. Doesn't show a popup message when pressing down the reload button without the BMC configuration file.

### **1.02.49 (10/31/2022)**

1. Changed the drop-down list in the webGUI power page to a radio button.
2. Updated the network host format.
3. Disabled turning off RADIUS while logged in.
4. Fixed the webGUI continuing to load after Active Directory submission.

### **1.02.45 (09/22/2022)**

1. Enabled new error message to display in Dynamic DNS, Floppy Disk, and IPMI Configuration.
2. Added NIC link up/down event.
3. Added VROC feature to Redfish.
4. Added support for IPMI LAN disable.
5. Added support for Intel GPU ATS M1 and ATS M3.
6. Added support for AOC P3IMB-M-P1, P3IMB-M-P2 sensor reading.  
Fixed the following issues:
7. When "ISO Image" is already mounted on the same device, the "IMG/IMA Image" function should be disabled.
8. It should not be allowed to input a decimal point value at "Host IP Address."
9. Mount ISO fail behavior is abnormal while clicking on "Failure message."
10. System NIC (Systemslot, port) event description should be removed.
11. On Virtual Media (iKVM/HTML5), the "Umount" button is misspelled.
12. Configuration backward compatibility issue.
13. Set correct max alert count to 15.
14. The order of the AOC Temp Sensors is out of order.
15. The IPMI upload configuration message changed.
16. When using an invalid NTP server, the NTP setting does not sync after a BMC reboot.
17. While logged in, the user/operator should be able to modify itself.
18. Incorrect Severity under MEL.
19. After modifying the Web port and Web SSL port, an error message appears.
20. The Virtual Media/Record/Full-Screen help content does not meet the specifications.

21. When configuring Virtual Media and DDNS, different status messages are displayed.
22. Virtual media HTML5 fails to install the operating system sometimes.
23. The error message is incorrect when the session user is disabled.
24. The ipmi lan vlan value is unexpected.
25. When updating IPMI firmware in old/new UI iKVM, HTML5/Java iKVM displays the incorrect message.
26. When mounting is successful, the color of the display icon is incorrect.
27. Virtual keyboard language won't sync with iKVM language.
28. To view the password, the login screen should include a "eye-icon" button.
29. DHCPv6 network page check fails.
30. Added warning message for mixing RAID HDD types.
31. Fixed failed automation test case 408: BMCWebUI.
32. Removed license key check in the system troubleshooting webui page.
33. The LED blink/unblink action takes too long.
34. MELs and Error Message Display Behavior were added.
35. Intel ACC100 temperature reading is incorrect.
36. Disabled the LED blink action on the physical and logical view pages for M.2 cards.
37. Special account can cause out-band login at redfish at H12.
38. Fixed redfish SNMP patch protocol enable and port fail.
39. ACC ASICx Temp fan control is missing.
40. PSU fan2 shows "0 RPM" in WEB GUI.
41. Special Characters are allowed in the SNMPv2 Community String, enable SNMPv2.
42. In FW 1.00.00, WEBUI denied the ability to edit user properties.
43. Error in Memory Thermal Trip Display.
44. MEL displays an issue when the login username contains certain characters.
45. SMCIPMITool cannot clear sel after BMC loads the default.
46. The "IMA" image should be supported by iKVM (JAVA plug-in).
47. When all Maintenance Event Log categories are deselected, the "Export to Excel" button remains active.
48. Converted prefix to string type before checking duplicate rule.
49. The invalid special characters "@" and "." can be saved in the SMTP username.
50. Redfish returns two json data and generates an error response at H12.
51. While using the Connection Protocol and Authentication on SMTP, the Login User Privileges account should be disabled.
52. When a new user is created with special characters in the username, the WebUI will display "Invalid Username or Password."
53. MEL log non-existent user delete action.
54. It should not display tips when saving without any special characters on "Modify Community string." S
55. Redfish returns two json data and generates an error response at H12.
56. Redfish login failure will expose the current login username.
57. Redfish long odata.id caused 500 Internal Server Error at H12.
58. IP Access Control disconnects the Host Interface, resulting in System Brick.
59. Redfish automation test failed with eight failures on v01.02.23.
60. Alert Notification for SNMP.
61. Mounting will be prevented if the Mount button in HTML5 iKVM Virtual Media is pressed with no file selected.
62. UID LED does not work when updating BIOS via WEB.
63. The names of the fields Authentication/Encryption key and Protocol do not match ((Alert/SNMPv3).



64. *Graphics missing in Power webpage.*
65. *Undetectable version of power supply under BMC Web GUI.*
66. *The BMC webUI directory service to the Active Directory page does not match the X12 UI help specification.*
67. *Found the AutoConfiguration error when executed TC373--"Change LAN via BMC configuration" with ATT 2022/04/27."*
68. *Fixed the following issues:*
  - a) *Automation tests failure.*
  - b) *Redfish automation test failed with eight failures on v01.02.23.*
  - c) *IPMI ECO automation test failed.*
  - d) *Ignore query string if it's longer than 128 bytes.*
69. *Improvement Item PSU Fan 2 = 0 RPM on IPMI WEB.*
70. *Removed unused variables that cause internal error.*
71. *When deleting a user while logged in, the error message is incomplete.*
72. *Active Directory doesn't Task list filter match SPEC definition.*
73. *Ignore query string if it's longer than 128 bytes.*
74. *In version 01.02.25, the SAS controller causes the WEBUI Firmware inventory to hang.*
75. *PIO-220ME-FN6R-6-MB007 does not have a GPU-NVQT400-LK sensor or GPU information on the WEB UI.*
76. *Time zone does not reset to default after disabling the NTP through redfish.*
77. *Redfish automation test failed.*
78. *Fixed the following issues:*
  - a) *"Anonymous" user should preserve while filter account type "Redfish/IPMI" or "SNMP."*
  - b) *"Export to Excel" button is not deactivated when all Maintenance Event Log categories are deselected.*
79. *Does not allow me to log in with created user using ipmicfg.*
80. *Fixed the following issues:*
  - a) *Unable to mount "Floppy Disk" while uploading the \*.ima file.(Virtual Media).*
  - b) *Sorting result was incorrect by "Prefix Length" on "IP access Control" page.*
  - c) *It should be set to required field and with the asterisk (\*) symbol on "Syslog Server" and "Port."*
  - d) *The Dynamic DNS feature has a different filter rule between H12 and X12.*
  - e) *"Account Type" does not match on Add/Modify window and user list.*
  - f) *Mounting \*.img displays the wrong file type on the Virtual Media page.*
  - g) *Unable to mount "Floppy Disk" while uploading the \*.ima file.(Virtual Media).*
81. *Fixed the following issues:*
  - a) *Ignore question mark if no query parameter is appended to Redfish URI.*
  - b) *IPMICFGECO failed on TC122.*
  - c) *SUMECO failed on TC373.*
82. *Fixed the following issues:*
  - a) *The asterisk (\*) symbol is hidden with Community String.*
  - b) *It should be "Community String/Access Mode" on SNMPv2.*
  - c) *"Account Type" does not match on Add/Modify window and user list.*
  - d) *Duplicated information should not be present on the "Add New User" window.*
  - e) *It should not show tips while saving on "Modify Community String" without any special characters.*
83. *Fixed the following issues:*
  - a) *User/Operator privileges should be able to modify itself while logged in.*
  - b) *Password tips behavior is incorrect on the "Add New User/Modify User" window.*

- c) Auth key/Private key change password icon is inconsistent with Password field. (Add New User).
  - d) Tips info shifts the position of Password and Confirm Password field. (Add New User).
  - e) Tips info overlaps on "Account Type" check box. (Add New User).
84. Fixed the following issues:
- a) NTP can still use localhost as the Primary NTP Server.
  - b) It is not allowed to add empty Community Strings. (SNMPv2).
85. Keep running process if syslog status has not changed.
86. Fixed the following issues:
- a) Modified username or password will return oops error while Account Type is "SNMP."
  - b) SNMPv2/SNMPv3 buttons should be set to "OFF" by default.
87. Wrong base64 caused 500 Internal error at redfish.
88. There are 10 fail items when running SATC test.
89. Verified that NTP can be enabled and disabled through WEBUI.
90. The Language Change title string is not translated.
91. Fixed the following issues:
- a) Task list filter Completed Time the string will be shifted.
  - b) Dynamic DNS feature has different filter rule between H12 and X12.
  - c) The link speed in physical view is displaying "drives link speed and also link not active."

#### **1.02.20 (03/07/2022)**

Fixed the following issues:

1. WEB UI Storage monitoring function delay over 1 minute when executing create RAID/delete RAID.
2. Out-of-Spec Definition Assertion Deassertion events logs when hot plugging power supply unit.
3. When launching java plug-in under Remote Console , it will return to Web UI log in page.
4. SMCIPMITool is able to set primary server to localhost.
5. Incorrect NVME event description in 01.02.13 if Drive slot defined in system SPEC.
6. Power supply information missing/misplaced/failed to update in IPMI WebGUI.
7. SAS logical SEL description is incorrect.
8. [QCL AOC-SLG3-2SM2 / AOC-SLG3-2NM2] Sensor readings not showing AOC\_SSD\*\_Temp.
9. Network number mismatch during run system on/off test (Failover mode).
10. Need to show storage controller VPD information on Web GUI.
11. There is no BMC User Guide link that is workable in the help page.
12. The IPv6 address is out of bounds.
13. The format of CPU page is incorrect.
14. Host will not reboot automatically after BIOS runtime update.
15. Web ADMIN Can delete newly-created user even when the new user is logged in.
16. Implement SEL based on spec 1.34.
17. Implement MEL based on spec 1.04.
18. IP Address can't support IPv6 format on "IP Access control" page.
19. SOL fails to start in SMASH Console.
20. AOC-S25G-B2S-O is not displayed in the WebGUI.
21. System needs to show a warning message when a user tries to add a duplicate rule.
22. Added SecureBoot API for new HII.

23. *Displayed symbol for "Descending" during sort.*
24. *IPMI Console Capture Video sometime freezes during progress.*
25. *Fixed BIOS UFFN version mismatch.*
26. *[LCS-AOC-S3908L-H8IR-16DD] There are extra labels for HDD operation in BMC WEB UI.*
27. *Used wrong information will return Oops! error while mount ISO (Virtual Media).*
28. *Fix #132720 STD --17198--1.02.02--Web Notification Alert*
29. *Sensor readings does not show all NVMe temp in BMC.*
30. *AC cycle got Dedicated LAN Link Down event [133687] - Fan speed miss detect / LAN Link Up - Down - Up in BMC log*
31. *Add PSU Input voltage/Current/Power wording to support AC Input.*
32. *Unable to login to BMC*
33. *IPMI Web - System - Component Info - PSU - Fan2 shows 0 RPM.*
34. *Sorting should not be by "Health Status" and "state" at same time.*
35. *CPU Health severity is not correct on Dashboard(System) and Component Info.*
36. *iKVM Record video function does not display under HTML5 remote console.*
37. *Failure to setup Time Zone.*
38. *User is able to delete itself while logged in.*
39. *User is able to enter 65 characters as Authentication Key and Encryption key when setting Alerts with SNMPv3.*

#### **1.02.08 (12/03/2021)**

1. *Under Redfish Manager SSM v5.1, NM version no longer displays "unknown()".*
2. *Fixed incorrect description on web BMC after issuing DC28 cmd.*
3. *SNMPv3 raw commands are now working.*
4. *The PCIe devices range have been fixed for offset function and also removed redundant actions.*
5. *The Redfish API now points to the correct ports.*
6. *Fixed issue with NIC sensor not being able to return a reading.*
7. *Fixed user privileges denying regular user accounts to change UID setting.*
8. *Fixed user privileges disallowing the creation of anonymous or null value accounts.*
9. *Fixed issue with the Ethernet interface, where the API returns an unexpected string in the description.*
10. *iKVM/HTML5 will now show a warning message when more than 5 iKVM sessions are opened concurrently.*
11. *Locally Administered MAC Address for Redfish host interface Host interface can no longer get an IP address in the client OS after an OS reboot or during a remove/insert of the rndis driver.*
12. *Health Sensor now also generates a warning after a CPU event warning.*
13. *Fixed iKVM issue where changing language from English results in abnormal behavior.*
14. *IPMI Web and iKVM no longer automatically disconnects when web session timeout is 0.*
15. *Serial Number and Part Number mismatch have been fixed.*
16. *Corrected BIOS update parameter string on web interface.*
17. *Multifunction is now grayed out when logging in with User privileges.*
18. *Fixed issue where the ADMIN account fails to unlock system.*
19. *Removed Mouse Mode, iKVM, and Snooping license checks.*
20. *Fixed buffer overflow in IPMI LAN ASF protocol.*
21. *Fixed Directory Service to support groups only.*
22. *It is now possible to delete user via SMCIPMI Tool.*

23. *The IPv6 address list is now cleared.*
24. *License check on mounted VM and Memory Metrics is now enabled.*
25. *Password requirements have been updated for consistency.*
26. *The memory leak issue when getting PCI information has been fixed.*
27. *The NTP primary server now checks for the correct IP address.*
28. *DELETING motherboard EC tasks now works.*
29. *API of update service no longer returns a 500/503 error without any file attached.*
30. *On system lockdown via web, "Close" button is now in the "Preference" page on iKVM (HTML5).*
31. *iKVM port no longer becomes 0 after reloading configuration file.*
32. *A user account can no longer delete itself while logged in.*
33. *Now supports crash dump, download/upload golden, backup image.*
34. *The Domain Name can now be saved in the DDNS Page.*
35. *Autoconfig is now activated when IPv6 is enabled with stateless mode, to fix TC267.*
36. *The web System lockdown enable/disable issue has been fixed.*
37. *IPMI configuration files are now validated during upload. "x" tick box is now within the frame.*
38. *String Handling issue on Authentication/encryption key fields have been fixed.*
39. *Default is now 'checked' to Auth and Private protocol.*
40. *Corrected titles for Authentication key / Authentication Protocol /Encryption Key/Encryption Protocol fields.*
41. *Corrected fields in Modify alert - Protocol - Redfish.*
42. *Correct Initial value to object of subject field.*
43. *SNMPv2 default value is now set to "OFF".*
44. *SMSTC automation testing no longer fails.*
45. *The API now recognizes the NIC.*
46. *The GPU location in the WebUI is now displayed clearly.*
47. *Fixed BBU status error.*
48. *Mount ISO no longer fails to mount over IPv6.*
49. *Username and passwords are now consistent with tips/Help information.*
50. *CPU SEL event no longer triggers the SEL to return a 500 error.*
51. *Upper right corner language has been revised in IPMI Web GUI*
52. *The PFR "Recover" button no longer grays out when the DCMS license is deactivated.*
53. *Updated the Redfish BIOS API with the new HII design*
54. *Added a new raw command 0x30 0x68 0x39 to add/delete a user account.*
55. *Added SpecialCharacters and BMCUsers.*
57. *Added support for BIOS runtime update.*