Filename: SMT_X11AST2500_171_18.bin version: 1.71.18 Build / Release
Date: 02-24-202 / 02-24-2020
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_11.xlsx
1.
    Category: Enhancement
        Description:
            [105880] Unclear SEL message after Enhanced PPR function
complete.

        Impact motherboard:
            X11DPI.

        Affected functions:

        Validation:
            1. Please ask bios / LAB guy for this testing item.
            2. The health event log should display complete PPR
information.

2.
    Category: Fix
        Description:
            [105032] IPMI WebGUI Missing "Storage Monitoring" Option
witih AOM-S3224-L.

        Impact motherboard:
            X11DDW.

        Affected functions:

        Validation:
            1. Insert AOM 3224 AOM cards.
            2. Sensor reading is not available.

3.
    Category: Fix
        Description:
            [105144] IPMIECO automation: 3 tests failed.
            [105621] Updating BIOS from WebGUI failed.

        Impact motherboard:
            X11DPG-OT

        Affected functions:

        Validation:
            1. Update BIOS, it should be successful.
            2. Run IPMI ECO test.

4.
    Category: Fix

```
        Description:
            Disable 3rd Broadcom card.

        Impact motherboard:
            X11QPH

        Affected functions:

        Validation:
            1. Insert 3rd party cards.
            2. Storage sensor reading should disppear.
            3. The sensor reading web gui should work properly.

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Filename: SMT_X11AST2500_171_17.bin version: 1.71.17 Build / Release
Date: 12-30-2019 / 12-30-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_11.xlsx

1.
    Category: Fix
        Description:
            Fix Security fix.

        Impact motherboard:
            All.

        Affected functions:
            SUM, SMCIPMITOOL, SSM SW tools.

        Validation:
            1. Please verify all functions thought web, SUM, SMIPMITOOL.

2.
    Category: Fix
        Description:
            [103880] The fan speed is not slow down when changing.

        Impact motherboard:
            X11DPG-SN

        Affected functions:

        Validation:
        1. Set to full speed.
        2. Set back to optiomal mode.
        3. Check if all FANs should be slow down accordingly.

3.
    Category: Fix
        Description:
```

[103583] not sensor of Intel P4511 M.2 on the X11DDW.

Impact motherboard:
    X11DDW 1.20

Affected functions:

Validation:
1.Programm HW version to "1.20" at fru1.
2.Do not preserve SDR before FW is updating.
3.Check the M.2 sensor reading is good.

4.
   Category: Fix
       Description:
         Support RTX 6000 & RTX 8000 passive GPU.

       Impact motherboard:
         X11SPG, X11DPG-QT

       Affected functions:
         Please use the bios which support these GPUs.

       Validation:
         1. Check the GPU sensor reading.

5.
   Category: Fix
       Description:
         [103721] chassis intrusion sensor cannot be detected when a
M.2 drive
        is installed.

       Impact motherboard:
         X11DAI

       Affected functions:
         Please use the bios which support these GPUs.

       Validation:
         1. Insert M.2 drives with OOB temperature reading function.
         2. Check the chassis intrusion sensor work properly.

6.
   Category: Fix
       Description:
         [103721] IPMI page not show NVMe tag.

       Impact motherboard:
         X11DPT-PS + BPN-SAS3-827HD2-N4

       Affected functions:
       Validation:
         1. Insert

2. Check the chassis intrusion sensor work properly.

    7.
        Category: Fix
            Description:
                VRM sensor is missing.

            Impact motherboard:
                X11QPH

            Affected functions:
            Validation:
                1. Check VRM sensor reading.

    7.
        Category: Fix
            Description:
                [104351] A disk status showed Not Present during I/O
                [103518] IPMI keeps display the disk status "Present" after
hot remove disks
                [103326] The IPMI "Create Virtual Drive" option is not
removed for the AOM (non-raid) IT mode
                [101982] IPMI Unit Reset sets Locate LEDs to RED color while
BPN Locate LEDs are no blinking

            Impact motherboard:
                X11DDW-NT + AOM-S3224-L-P

            Affected functions:
            Validation:
                1. Sensor reading should be disable.

Filename: SMT_X11AST2500_171_16.bin version: 1.71.16 Build / Release
Date: 11-20-2019 / 11-20-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

    1.
        Category: Fix (Workarouund)
            Description:
                [101636] [IPMI ECO 1.71.05] 2.2.0 (2019/02/20) (x86_64) test
fail.

            Impact motherboard:
                X11SPL

            Affected functions:
                Bios update.
            Validation:
                1. Run SUM SMSTC IPMI ECO test.

```
--------------------------------------------------------------------------
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Filename: SMT_X11AST2500_171_15.bin version: 1.71.15 Build / Release
Date: 11-13-2019 / 11-13-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx


2.
    Category: Enhancement
    Description:
        Adjust VT505 OCP value at 0xA0 0xC0.

    Impact motherboard:
        X11DPT-B, X11DPT-BH

    Affected functions:
    Validation:
        1.  Adjust VT505 OCP value at 0xA0 0xC0.


--------------------------------------------------------------------------
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Filename: SMT_X11AST2500_171_14.bin version: 1.71.14 Build / Release
Date: 11-08-2019 / 11-08-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx


1.
    Category: Fix
        Description:
            [101636] [IPMI ECO 1.71.05] 2.2.0 (2019/02/20) (x86_64) test
fail.

        Impact motherboard:
            X11SPL

        Affected functions:
            Bios update.
        Validation:
            1. Run SUM SMSTC IPMI ECO test.
--------------------------------------------------------------------------
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Filename: SMT_X11AST2500_171_13.bin version: 1.71.13 Build / Release
Date: 11-07-2019 / 11-07-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx


1.
```

Category: Fix
        Description:
            [103225] [IPMI ECO] Redfish Automation Failed with 2 Test
Cases.

        Impact motherboard:
            X11DDW

        Affected functions:
            Storage functions with AOM card(AOM-S3224)
        Validation:
            1. Run redfish automation test.

Filename: SMT_X11AST2500_171_12.bin version: 1.71.12 Build / Release
Date: 11-01-2019 / 11-01-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
        Description:
            [102063] The Storage Monitoring option was disappeared during
a sequence of IPMI Locate LED Starts/Stops
            [101982] IPMI Unit Reset sets Locate LEDs to RED color while
BPN Locate LEDs are no blinking
            [101923] The log events of the drive hot plug were not logged
in the IPMI Health Event Log
            [100877] The "Storage Monitoring" option was disappeared
after rebooted the system

        Impact motherboard:
            X11DDW

        Affected functions:
            Storage functions with AOM card(AOM-S3224)
        Validation:
            1. Install AMO-S3224 on X11DDW
            2. Check if BIOS load the AOM's controller option ROM
            3. Check if BMC show up the "Storage monitoring" submenu in
WEB UI

Filename: SMT_X11AST2500_171_11.bin version: 1.71.11 Build / Release
Date: 10-25-2019 / 10-25-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.

Category: Fix
Description:
    Verify the concatenate string of unique password is wrong

Impact motherboard:
    All

Affected functions:
Validation :
    1. Set unique password of raw command 0x30 0x74 0x1 (ex. 123456)
    2. Verify the unique password of raw command 0x30 0x74 0x1 (ex.
1234 or 12345)

Filename: SMT_X11AST2500_171_10.bin version: 1.71.10 Build / Release
Date: 10-24-2019 / 10-24-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
    Description:
        [102342] An intermittent issue which AOC-MTG-B2TM-O has sensor
    temperature reading issue after stress test.

    Impact motherboard:
        X11SPL

    Affected functions:
    Validation :
        1. Run test case #219 on SMSTC.
        2. The result should be passed.

Filename: SMT_X11AST2500_171_9.bin version: 1.71.9 Build / Release Date:
10-23-2019 / 10-23-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
    Description:
        [102893] Standard -- 9165 -- 1.71.8 --Unique Password can be
clear using Raw Command 0x30 0x74 0x2.

    Impact motherboard:
        All motherboards.

Affected functions:
    Validation :
        1. Use raw command 0x30 0x74 0x2

2.
    Category: Fix
    Description:
        [102871] The unique password set bit can be removed by ipmitool
raw command

    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Use raw command 0x30 0x74 0x2

3.
    Category: Fix
    Description:
        [102824] Standard -- 9165 -- 1.71.8-- Incorrect response 204 when
post factory default with invalid option value on redfish
            [102823] Standard -- 9165 -- 1.71.8 -- Incorrect response 503
when post factory default with empty body on redfish
    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Post Managers/1/Actions/Oem/ManagerConfig.Reset if use empty
body or invalid option

4.
    Category: Fix
    Description:
        [102894] [IPMI ECO] JAVA KVM should block Virtual Media section
and give warning message when virtual media port was disabled

    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Disable VM port and check the Virtual Media on Web

5.
    Category: Fix
    Description:
        [102710] IPMI fw 1.71.7 need new load factory default options for
IPMICFG/SMCIPMITOOL/REDFISH

    Impact motherboard:
        All motherboards.

Affected functions:
    Validation :
        1. Follow the 299 form and use the newest tools

    Filename: SMT_X11AST2500_171_8.bin version: 1.71.8 Build / Release Date:
    10-16-2019 / 10-16-2019
    U-Boot build time : 2013.01 (Mar 22 2019)
    Java SOL Viewer version : v0.5.13
    Java iKVM Viwer version : v1.69 r37
    Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
    Description:
        [102342] An intermittent issue which AOC-MTG-B2TM-O has sensor
    temperature reading issue after stress test.

    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Insert 2 NIC cards and power on the system.
        2. 2 AOC NIC temperature sensors should show up.
        3. Do DC on / off testing and see if these sensors are gone.

2.
    Category: Fix
    Description:
        [102657] Standard -- 9165 -- 1.71.7 -- inconsistent behavior for
    factory function

    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Add raw command 0x30 0x48

3.
    Category: Fix
    Description:
        [102544] Standard -- 9165 -- 1.71.7 -- incorrect message for
    Delete User Without Selecting Slot

    Impact motherboard:
        All motherboards.

    Affected functions:
    Validation :
        1. Goto users page, click delete button.

Filename: SMT_X11AST2500_171_7.bin version: 1.71.7 Build / Release Date:
10-09-2019 / 10-09-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: New Feature
    Description:
        BMC FW solution to program and store unique pre-programmed
password.

    Impact motherboard:
        All

    Affected functions:
    Validation:
        Raw 0x30 0x74 0x01 <bytes list for unique factory password> to
set unique password
        1) ipmitool -H $IP -U ADMIN -P ADMIN 0x30 0x74 0x1 0x32 0x77 0x73
0x78 0x23 0x45 0x44 0x43 (2wsx#EDC)
        Raw 0x30 0x74 0x01 to get the status
        1) ipmitool -H $IP -U ADMIN -P ADMIN 0x30 0x74 0x1
        Factory default on the Web

2.
    Category: Fix
    Description:
        [101803] Fan speed will not back to optimal speed once full speed
mode was set

    Impact motherboard:
        X11SPG

    Affected functions:
    Validation:
        1. Set to full speed.
        2. Set back to optimal speed.
        3. Check if FAN rpm slow down.

Filename: SMT_X11AST2500_171_6.bin version: 1.71.6 Date: 08-30-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix

```
    Description:
        [101605] [101542] The BMC configuration is not preserved from
release version to new version

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Please run Automatioon on Robot - Test case 006,029 from
1.71.6 to 1.71.6.
            it should be all passed.
        2. We fixed ntp error at 1.70, therefore when updating from 1.69,
            autorobot will report ntp error.

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Filename: SMT_X11AST2500_171_5.bin version: 1.71.5 Date: 08-24-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
    Description:
        [101443,101440] After CPU Overheat De-assertion, IPMI WebGUI
System Status
        Still Shows Critical

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Overheat the CPU and let "Automatically throttle" event log
happens.
        2. The icon on top right corner of the web gui ,it should show
red icon.
        3. Let event log de-asserted, the icon should change back to
green icon.

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Filename: SMT_X11AST2500_171_4.bin version: 1.71.4 Date: 08-15-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: Fix
    Description:
```

```
        [98267] SEL show error message after AOC-S3108 update firmware
        [98232] [IPMI ECO] Health Event Log Shows Error Message after
               SAS 3108 FW Update via IPMI Web GUI
        [98082] SEL show error message after AOC-S3108 update firmware
        [98081] SEL show error message after AOC-S3108 update firmware
        [97624] X11 BMC: During AOC firmware update, BMC reported error
```

    Impact motherboard:
        MBs with broadcom 3108 cards installed.

    Affected functions:
    Validation :
        1.Update Broadcom FW though web.
        2.The event log should not be seen.

2.
    Category: Fix
    Description:
        Fix Supermicro BMC Virtual Media Multiple Vulnerabilities.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation:
        1. Check the virtual media function if works properly.

3.
    Category: Fix
    Description:
        [100979] SR_B3_X11DDW-L_Vcpu1 physical voltage (1.79V) inconsist
to IPMI SDR (1.89V).

    Impact motherboard:
        X11DDW

    Affected functions:
    Validation:
        1. Update FW without SDR reserved.
        2. Measure vcpu voltage by the electric meter.
        3. Compare with another on vcpu sensor. it should be close.

4.
    Category: Fix
    Description:
        [100521] /redfish/v1/AccountService MaxPasswordLength does not
accurately reflect maximum
        allowed password length.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation:

1. Run redfish automation tools.

5.
    Category: Fix
    Description:
        [97569]KEYPAD * and + key maps are wrong via IPMI iKVM console
and KEYPAD on physical keyb

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Open IKVM and press the following keys using the physical
keyboard.
            press the key "*" on the right side keypad.
            press the key "+" on the right side keypad.
        2. Check that the displayed characters match the key.

Filename: SMT_X11AST2500_171_2.bin version: 1.71.2 Date: 07-15-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: fixes
    Description:
        [99286] Fan speed is abnormal.
        [96850] Without GPU, PWM2 is still changing.

    Impact motherboard:
        X11QPH

    Affected functions:
    Validation:
        1. Check the fan curve.

Filename: SMT_X11AST2500_171_1.bin version: 1.71.1 Date: 07-10-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_07_10.xlsx

1.
    Category: fixes
    Description:
        [100387] SMT_X11AST2500_171_0 -- IKVM/HTML5 is disable.

    Impact motherboard:

All MBs

    Affected functions:
    Validation:
        1. Click iKVM/HTML5 web page.
        2. The button should not be disabled.

Filename: SMT_X11AST2500_171_0.bin version: 1.71.0 Date: 07-09-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_03_28.xlsx

1.
    Category: New feature
    Description:
        (299-00-190429-001) Support IPMI FW version have third number
(build version).

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Update the 1.71 IPMI FW version.
        2. Web
            i.   Login the IPMI Web GUI.
            ii. Check the IPMI FW number status on system information
page.
        3. IPMITool
            i.   Send the IPMI command "mc info".
            ii. Check the 'Aux Firmware Rev Info' first field number is
same with the third number or not?
        4. Redfish
            i.   Send the GET requirement to "https://'DEVICE
IP'/redfish/v1/Managers/1".
            ii. Check "FirmwareVersion" field correct or not?
        5. SNMP
            i.   Enable SNMPV2 from IPMI Web GUI Configuration->SNMP.
            ii. Open the MIB browser and load IPMI-SNMP-Agent.mib.
            iii. Check boardinfo->bmcBuildVesion value.
        6. TwinPro MCU
            i.   Login the IPMI Web GUI.
            ii. Into the Server Health->Multi Node page.
            iii. Check the IPMI FW number "BMC Version" field status on
each workable node.

2.
    Category: New feature
    Description:
        (299-00-181031-002) BMC Account Security

Impact motherboard:
            All MBs

        Affected functions:
        Validation:
            1. Please refer "(299-00-181031-002) Account_Security.docx".

3.
        Category: New feature
        Description:
            (299-00-190220-001) Requested standard BMC FW modification
features.
               1. Modification for event severity

        Impact motherboard:
            All MBs

        Affected functions:
        Validation:
            1. Generate a process hot event.
            2. Check if this event severity is Critical under Health Event
Log page.

4.
        Category: New feature
        Description:
            (299-00-190118-001) Requested standard BMC FW modification
features.
               8. Send all event log (Health & Maintenance) to Syslog
server.

        Impact motherboard:
            All MBs

        Affected functions:
        Validation:
            1. Setup an Syslog server to recieve event log by BMC.
            2. Generation a Health and Maintenance evnet log.
            3. Check the recieve message from Syslog server.
            Health format   = Health event log | "Time" | "IP" |
"Severity" | "Describtion" | "Sensor name & Sensor Type"
            Maintenance format = Maintenance event log | "Time" | "IP" |
"Severity" | "Describtion" | "Interface User (Network Privilege)"

5.
        Category: New Feature
        Description:
            (299-00-190220-001) Requested standard BMC FW modification
features.
               4. Add Uefi Pxe in Redfish System boot order.

        Impact motherboard:
            All

Affected functions:
Validation:
1. Get /redfish/v1/Systems/1 by Restful API
2. Patch BootSourceOverrideEanble as "Once"
            BootSourceOverrideMode   as "UEFI"
            BootSourceOverrideTareget as "Pxe"
        on /redfish/v1/Systems/1 by Restful API
3. Please refer "(299-00-190118-001, No. 3)
Change_Redfish_Boot_Source_behavior_based_on_Redfish.docx".

6.
Category: New feature
Description:
    Added a new item for MCU update in the generalfileupload
function,
    it will be called by other command line tools like SMCIPMITool,
etc.
    (the currently valid MCU types are A6, A7, and A8)

Impact motherboard:
    Twinpro & BigTwin systems with BPN has MCU or CPLD on it.

Affected functions:
Validation:
1. Use the following command to start the MCU update:
    # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfileupload 14 <MCU_FW>
2. After the file is uploaded, BMC will perform the update,
    you can confirm the update progress with the following
command:
    # ipmitool -H <IP> -U ADMIN -P ADMIN raw 0x30 0x70 0x81
3. After the update is done, manually turn AC off/on to let the
MCU apply the new firmware.
    (if the MCU type is A7 or A8, the BPN will automatically AC
off/on to restart the system)
    Note. [A6 type: CPLD], [A7 type: single Nuvton MCU], [A8 type:
dual Nuvton MCU]

7.
Category: New feature
Description:
    Add secure boot url for Redfish API.

Impact motherboard:
    X11DPU+, X11DPT-B+, X11DPI, X11DPG-Q, X11DPT-PS, X11DPG-OT, and
X11DDW.

Affected functions:
Validation:
1. Redfish APIs:
    Verify following redfish APIs and operations using
POSTMAN/Curl/Python script
        Item   Detail
        GET   /redfish/v1/Systems/1/SecureBoot

```
             PATCH        /redfish/v1/Systems/1/SecureBoot
          GET
/redfish/v1/Systems/1/SecureBoot/ResetKeysActionInfo
          POST
/redfish/v1/Systems/1/SecureBoot/Actions/SecureBoot.ResetKeys
```

8.
  Category: Fixes
    Description:
      [100237] BMC can't detect NVMe SSD sensor reading.

    Impact motherboard:
      X11DAI-N

    Affected functions:
    Validation:
      1. Please do not preserve SDR before FW is updating.
      2. Insert NVMe drive by cable.
      3. Check the NVMe SSD sensor reading if present.

9.
    Category: fixes
    Description:
      [100164] The IPMI "Create Virtual Drive" option is not consistent in the different web broswers.
      [100117] Web GUI IPMI does not display Controller information with Internet Explorer 11

    Impact motherboard:
      X11DPU+, X11DPU-X, X11DPU-XLL, X11DPU-Z, X11DPU-ZE+, X11DPH, and X11SPW-CTF

    Affected functions:
    Validation:
      1. Install AOC-S3008L-L8e+ and attach some physical drives to it.
      2. Browse BMC WEB via IE11 to check if the "Create Virtual Drive" button exists or not.

10.
    Description:
      [99637] [IPMI] IPMI Web Formatting Issue: System

    Impact motherboard:
       All

    Affected functions:
    Validation :
      1.The following lines have no space before the colon
        Firmware Revision: xxx
        Firmware Build Time: xxx
        Redfish Version: xxx
      2. Address first letter shoud be upper case letter
      System LANx MAC Address:

11.
    Category: Fix
    Description:
        [99952] Redfish - Unable to access Redfish with RADIUS session
after factory default.
        [99766] [IPMI ECO v1.22] SATC redfish automation test fail.
    Impact motherboard:
    All
    Affected functions:
    Validation:
    1.Perform Factory Default(Web/SMCIPMITool).
    2.PATCH RADIUS server info /redfish/v1/Managers/1/RADIUS.
    3.GET RADIUS using RADIUS credential.

12.
Category: Fixes
    Description:
        [97887] IPMI RADIUS Authentication Client Returns Localhost IP In
NAS-IP-Address/
        [97886] IPMI RADIUS Authentication Will Not Work If
Authentication Delayed Over 3 Seconds.
        [97885] IPMI RADIUS Authentication Violates Attribute 26
Specification.

    Impact motherboard:
        All
    Affected functions:
    Validation:
        1. Server side:
            - /etc/freeradius/dictionary   (To define VENDOR ID)
                VENDOR   SMCI   10876
                ATTRIBUTE   SMCI-PERMISSIONS   1   string   SMCI
            - /etc/freeradius/users   (To add other attributes)
                username Cleartext-Password := "password"
                SMCI-PERMISSIONS = ?è¬?4, I=4??   #value: 1 ~ 4
                ...
        2. Login RADIUS username to webpage and use wireshare to receive
packets.
            - To check NAS-IP-Address or Attribute.

13.
  Category: Fixes
    Description:
        [97569]KEYPAD * and + key maps are wrong via IPMI iKVM console
and KEYPAD on physical keyboard.

    Impact motherboard:
        All

    Affected functions:
    Validation:
        1. Open IKVM and press the following keys using the physical
keyboard.
            press the key "*" on the right side keypad.

```
          press the key "+" on the right side keypad.
        2. Check that the displayed characters match the key.


    14.
      Category: Fixes
        Description:
            [97488] DPCMM sensor reading failed.
            DPCMM thermal curve is not correct.


        Impact motherboard:
            All.


        Affected functions:
        Validation:
            1. Insert DCPMM dimm.
            2. Mark '*' in the end of sensor name for AEP DIMM
            3. Check the thresholds of DPCMM if meet thermal guide.


    15.
      Category: Fixes
        Description:
            CRM #SM1905104086 IPMI Become Not Compatible After Update


        Impact motherboard:
            All MBs


        Affected functions:
        Validation:
            1. Use the following command to walk all the sensor name.
                #> snmpwalk -v 2c -c public {BMC_IP}
1.3.6.1.4.1.21317.1.3.1.13
            2. The sensor name should be human readable strings.


    16.
      Category: Fixes
        Description:
            Add X11SPG-TF M.2 sensor.


        Impact motherboard:
            X11SPG-TF


        Affected functions:
        Validation:
            1. Insert M.2 sensor.
            2. Check the sensor reading.

-----------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_170.bin version: 1.70 Date: 05-20-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_03_28.xlsx
```

1.
    Category: New feature
    Description:
        Support DCPMM(AEP DIMM) sensor reading
        1. We determine the memory type from SMBIOS information
        2. Set threshold according to thermal guide
        3. Read both controller and media temperature and display the
larger one
        4. Mark '*' in the end of sensor name for AEP DIMM

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Prepare CPU that supports DCPMM
        2. Install AEP DIMM onto some DIMM slots
        3. Open sensor reading page and expect to see that IPMI displays
them normally
            (also, their sensor names have trailing '*', e.g. P1-DIMMA2
Temp*)

2.
    Description: New feature
        Support onboard M.2 sensor reading.

    Impact motherboard:
        X11SPW / X11DAI-N.

    Validation :
        1.Check the M.2 sensor reading.

3.
    Category: Fixes
    Description:
        [98880] IPMI] Cann't show GPU Temp sensor reading on FW 1.69
        [98750] All sensors are showing "Not Present" in webgui.
        [98675] IPMI- All sensors showed Not Present in.
    Impact motherboard:
        X11DPG-OT

    Affected functions:
    Validation:
        1. Do not install AOC / GPU cards at slot.
        2. Check the sensor reading.
        3. Insert GPU sensors.
        4. Check the sensor reading.

4.
    Category: Fixes
    Description:
        [98541] IPMI ECO 1.69] NVMe SKU - IPMI NVMe SSD tab missing from
IPMI Web GUI
            after updating to IPMI FW 1.69.

```
    Impact motherboard:
        X11DPT-B, X11DPT-BH, X11DPT-BV

    Affected functions:
    Validation:
        1. Install BPN-NVME3-217BHQ and NVMe drives.
        2. Check if the NVMe web gui appears.

5.
    Category: Fix
    Descript:
        [98396] [ACL Test] StorageController 2 access degraded or
unavailable - Assertion
    Impact motherboard:
        X11DPU
    Affected functions:
    Validation:
        1. Insert 3 AOC 3108 cards.
        2. Run cburn on / off testing.
        3. Then check the health event log. It should not have event log.

6.
    Category: Fix
    Description:
        [98182]redfish - /Managers/1/ FirmwareVersion missing leading
zero in minor version

    Impact motherboard:
        All MBs

    Affected functions:
        Validation:
            1.GET /redfish/v1/Managers/1/
            2.Check Firmware Version

7.
    Category: Fix
    Description:
        1.[98056]Able to set VLAN ID to 4095 and no warning message pops
up.
        2.[98055]Unable to PATCH VLANId.
        3.[97501]Change VLAN id range 1~4094.

    Impact motherboard:
        X11DPG-QT

    Affected functions:
    Validation:
        1. key in 4095 vlan id, web page will pops up warning message.
        2. VLAN ID should be able to modify and connect.

-------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_169.bin version: 1.69 Date: 04-10-2019
```

U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2019_03_28.xlsx

1.
     Category: Fix
     Description:
         [98242] Submit SUM test will terminate when execute
GetCurrentBiosCfg and IPMI version is SMT_X11_AST2500_167_V on X11DPU.
         [98241] Some function fail when IPMI is SMT_X11_AST2500_167_V on
X11DPU.

     Impact motherboard:
         X11DPU, X11DPT-B, X11DPT-BH

     Affected functions:
         Please update signed BMC FW 1.69.

     Validation:
         1. After FW is updated, check sensor reading is normal.
         2. Run SMSTC test.

2.
     Category: Fix
     Description:
         [98192] IPMI ??Battery Status cannot be showed on WebGUI when BBU
has been installed

     Impact motherboard:
         X11DPH-T

     Affected functions:
     Validation:
         1. Install 3108 card and BBU.
         2. Navigate to "Server Health" > "Storage Monitoring".
         3. Click on arrow.
         4. Battery Status should show "Optimal" rather than "Missing".

3.
     Category: Fix
     Description:
         Install AOC 3108 card and BBU for cburn on & off testing, we will
see BBU sel log.

     Impact motherboard:
         Order: 101000080810;
         SKU: SSG-2029P-E1CR24H-QT001 (MBD-X11DPH-T-P Rev 1.10);
         BIOS: 01/24/2019 (Ver: 3.0a Rev:5.14);

     Affected functions:
     Validation:
         1. Install 3108 card and BBU.
         2. Check if BBU event log will show.

4.
    Category: Fix
    Description:
        [97967] Cannot read I2C temperature sensor of LSI 3108 for all 6
        systems - ORD: 8800579093.
        SMC AOC 3108 card + Broadcom 3008 card combination.
        Storage monitoring web gui will not been seen.

    Impact motherboard:
        ORD# 8800579093 and 8800579094: 1* AOC-S3108L-H8IR-16DD & 2* AOC-
SAS3-9300-8E

    Affected functions:
    Validation:
        1. Install AOC-S3108L-H8IR-16DD & 2* AOC-SAS3-9300-8E.
        2. Check if Storage monitor web gui will show.

5.
    Category: Fix
    Description:
        [98157][IPMI ECO 1.67] WebUI formatting issue.
        [98044] IPMI ECO 1.67] WebUI formatting issue.
    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. In BIOS update page, the information on the new date is
aligned center.

6.
    Category: Fix
    Description:
        [98144] GPU temperature does not drive fans (No PWM duty output).

    Impact motherboard:
        X11DPFR

    Affected functions:
    Validation:
        1. Insert GPU.
        2. Check the sensor reading if normal.
        3. Heat GPU and check if PWM duty cycle riser up.

7.
    Category: Fix
    Description:
        [98098] [ECO-IPMI-1.67] The sensor Qty of BMC isn't correct.

    Impact motherboard:

    Affected functions:
    Validation:

```
        1. AC Power on the system.
        2. Check the sensor reading if normal.

8.
    Category: Enhancement
    Description:
        [97956] Tesla T4 not supported.

    Impact motherboard:
        X11DPT-BH

    Affected functions:
    Validation:
        1. Insert T4 GPU at SXB3, slot 1.
        2. Check the GPU sensor reading.

9.
    Category: Fix
    Description:
        [97697] Refish fulllist Allowed Operation mismatch.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Based on the latest full list of Redfish APIs, confirm that
the following methods are supported.
        (Use CURL or POSTMAN for the following test items)
            1-1. post /redfish/v1/Managers/1/EthernetInterfaces/1
            1-2. patch /redfish/v1/Managers/1/SerialInterfaces/1
            1-3. patch /redfish/v1/Managers/1/LogServices/Log1

        2. Confirm that the following method is not supported.
            2-1. patch /redfish/v1/Systems/1/Bios/SD
                    Status code should be 405.

10.
    Category: Feature
    Description:
        [97290] False report of 10 HDD pulled at the same exact second,
shall be reported as degrated controller
        Log mutiple HDD absent at the same exact second event as a
StorageController type event which is used to
            remind the user about possible component-relavant
problem(e.g., storage controller, cable, or backplane error)

    Impact motherboard:
        The MBs which support Broadcom 3108 card FW update function.

    Affected functions:
        Event log
    Validation:
```

[Note] Basically this feature is mainly to capture the situation
that large amount of HDD absence at the same exact second.
                Below steps are used to simulate but not the true
situation.
        1. Pull out 4 or more HDD at the same exact second
        2. Check BMC WEB UI - "Server Health / Health Event Log" to see
if there is an assertion of "Management Subsystem Health" event for
storage controller to tell bursting lost
        3. Push back all pulled HDD at the same exact second
        4. Check respective de-assertion event

11.
    Category: Feature
    Description:
        R: [96739, X11DPG-Q][H/W CPLD ECO] Cburn AC ONOFF test fail.

    Impact motherboard:
        X11DPG-Q

    Affected functions:

    Validation:
        1. Do cburn AC On / Off test.
        2. No FAN1 assertion logs.

12.
    Category: Enhancement
    Description:
        Support T4 GPU sensor reading.

    Impact motherboard:
        X11DAI-N at slot 2, 3 and 5.
        X11SPG at onboard, slot 3.
        X11SPW at SXB1, slot 1 and 2.

    Affected functions:
    Validation:
        1. Insert T4 GPU.
        2. Check the GPU sensor reading.

13.
    Category: Enhancement
    Description:
        Support on board NVMe M2. sensor reading.

    Impact motherboard:
        X11SPI, X11SPL + (Intel P4511 & Samsung PM983 M.2 devices)

    Affected functions:
    Validation:
        1. Insert NVMe M.2 devices.
        2. Do 0x30 0x44 command to remove Old SDR.
        3. Check if M2NVMeSSD Temp sensor shows up.

Filename: SMT_X11AST2500_168.bin version: 1.68 Date: 03-22-2019
U-Boot build time : 2013.01 (Mar 22 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Fix
    Description:
        [97894] [BIOS ECO 3.0c]BMC cannot get chassis information

    Impact motherboard:
         X11SPM

    Affected functions:
    Validation:
        1. Use X11SPM9.322 FW later.
        2. Check chassis sensor if presents.

Filename: SMT_X11AST2500_167.bin version: 1.67 Date: 03-11-2019
U-Boot build time : 2013.01 (Mar 08 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Fix
    Description:
        Change default password to !@#$%^&*
        After that either old one or new one doesn't work remotely.

    Impact motherboard:
         All MBs

    Affected functions:
    Validation:
        1. Use ipmitool or smcipmitool to change user password to
!@#$%^&*
        2. Login Web to check whether IKVM working status.
        3. Use ipmitool or smcipmitool to check whether KCS/LAN channel
work.
        Limitaion: if username or password inclued special char, it
cannot be add
                   to wsman user list.

2.
    Category: Enhancement
    Description:
        Add Patch for CVE-2019-6260 pantsdown.

    Impact motherboard:

All MBs

Affected functions:
Validation:
    1. Socflash cannot work.
    2. Run SMSTC, and it should be passed.
    3. Use 0x30 0x70 0xEA to get UBoot verion, it should return 0x12.

3.
Category: Fix
Description:
    [97555] No entry for GPU temperature in IPMI sensor reading.

Impact motherboard:
    X11DPG-QT

Affected functions:
Validation:
    1. Insert RTX 6000 GPU.
    2. Check the sensor reading.

4.
Category: Fix
Description:
    [97422] [BIOS ECO 3.0b] SUM test case 113 failed.
    [97341] SUM - 26 TC failed on X11DAi-N.

Impact motherboard:
    X11SPG-TF, X11DAI-N

Affected functions:
Validation:
    1. Insert RTX 6000 GPU.
    2. Check the sensor reading.

5.
Category: Fix
Description:
    [97404] Neither CPU VRM nor PLX cannot drive fans.

Impact motherboard:
    X11DPG-OT

Affected functions:
Validation :
    1. Heat VRM or PLX chips.
    2. Check if Fan speed raise accordingly.

6.
Category: Fix
Description:
    [97391] KVM and remote control are not working after using SSH into SMASH with AD account.

```
    Impact motherboard:
        All MBs with AD is correctly setup

    Affected functions:
    Validation:
        1. Configu AD correctly
        2. SSH into SMASH
        3. Exit SMASH ("ctrl + D" or just type "exit")
        4. Check KVM and remote control

7.
    Category: Fix
    Description:
        [97255] Wrong GPU fan curve.

    Impact motherboard:
        X11DPG-OT with T4 GPU.

    Affected functions:
    Validation :
        1. Heat GPU temperature and observe the duties.
        2. Check if behavior if meet GPU thermal spec.

8.
    Category: Fix
    Description:
        [96787] [Cascade Lake] Unable to update BIOS via OOB.

    Impact motherboard:
        X11DPU-XLL

    Affected functions:
    Validation :
        1. Updaste bios by ie11.
        2. The actions shoudl be complete without problem or web timout.

9.
    Category: Fix
    Description:
        Degraded & unavailable sel event comes out after Broadcom 3108 FW
is updated.

    Impact motherboard:
        The MBs which support Broadcom 3108 card FW update function.

    Affected functions:
    Validation :
        1. Update Broadcom 3108 card though BMC.
        2. System reboot.
        3. The sel event should not appear when BMC sensors are polling.
----------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_166.bin version: 1.66 Date: 02-21-2019
U-Boot build time : 2013.01 (Feb 21 2019)
```

Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Enhancement
    Description:
        Support new Uboot code version.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Use 0x30 0x70 0xEA command to get UBoot version.
            If it returns 0x12, then mean it is new Uboot code.
2.
    Category: Enhancement
    Description:
        Remove Patch for CVE-2019-6260 pantsdown.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Socflash can work.
        2. Run SMSTC, and it should be passed.

Filename: SMT_X11AST2500_165.bin version: 1.65 Date: 02-05-2019
U-Boot build time : 2013.01 (Feb 3 2019)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Enhancement
    Description:
        Support new Uboot code version.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Use 0x30 0x70 0xEA command to get UBoot version.
            If it returns 0x12, then mean it is new Uboot code.
2.
    Category: Enhancement
    Description:
        Patch for CVE-2019-6260 pantsdown.

```
    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Socflash cannot work after booting to all kinds of OSs.
        2. Stop at BMC uboot menu and use socflash. BMC should be
protected.
        3. Run SMSTC, and it should be passed.

---------------------------------------------------------------------
---------------------------
Filename: SMT_X11AST2500_164.bin version: 1.64 Date: 01-16-2019
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Fixes
    Description:
        [96543] Web UI disappear after selecting simplified Chinese
language

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Check simplified chinese on Web.
---------------------------------------------------------------------
---------------------------
Filename: SMT_X11AST2500_163.bin version: 1.63 Date: 01-04-2019
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Fixes
    Description:
        [96230] DCMS License activation inconsistent result between IPMI
between
    FW 1.52 V.S. 1.61

    Impact motherboard:
        All MBs

    Affected functions:
    Validation:
        1. Enable only DCMS license.
        2. Use SUM to query product key number "sum -c queryproductkey".
        3. The result should be 1 only.
```

2.
    Category: Enhancement
    Description:
        [95732] No GPU temperature sensor reading.

    Impact motherboard:
        X11QPH

    Affected functions:
    Validation:
            1. Insert GPU cards.
            2. Check sensor reading web gui.

3.
    Category: Fix
    Description:
        [95899] CPU VRM cannot drive fans.

    Impact motherboard:
        X11QPH

    Affected functions:
    Validation:
            1. Check the sensor VRM duty vaule exists.

Filename: SMT_X11AST2500_162.bin version: 1.62 Date: 12-13-2018
U-Boot build time : 2013.01 (Dec 13 2018)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
    Category: Fixes
    Description:
        Fixed the issue where MI25 GPU could not be detected.

    Impact motherboard:
        All MBs with GPU sensor supported.

    Affected functions:
    Validation:
        1. Insert GPU cards.
        2. Check sensor reading web gui.

2.
    Category: Fixes
    Description:
        [95751] [IPMI ECO 1.61]Change Time and Save it on IPMI Web and
sometimes I will see "Save uncompleted" message
        [95746] [IPMI ECO 1.61]Change Time and Save it on IPMI Web and
sometimes I will see "Save uncompleted" message

[95708] [IPMI ECO 1.61]Change Time and Save it on IPMI Web and sometimes I will see "Save uncompleted" message

Impact motherboard:
All MBs.

Affected functions:
Validation :
1. Enter page 'Date and Time'
2. Try to set it with different time and try this multiple times
3. Confirm that each time the configuration is saved successfully

3.
Category: Enhancement
Description:
Update the threshold of the AMD GPU(MI8/MI25).

Impact motherboard:
All MBs which GPU sensors are supported.

Affected functions:
Validation:
1. Check the threshold of the GPU temperature.
2. Check the fan speed of the cooling zone(it has reference to the GPU temperature).

4.
Category: Fixes
Description:
Fixed the issue [87593] IPMI--SMT_X11AST2500_144--Multiple Web UI formatting issues

Impact motherboard:
All MBs.

Affected functions:
Validation :
1. Please refer to PB issue id 87593

5.
Category: Feature
Description:
X11DPG-OT 21 PCIE Board support.

Impact motherboard:
X11DPG-OT + 21 PCIE Board.

Affected functions:
Validation:
1. Insert GPU
2. Update BMC to version 1.62.
3. Check sensor reading

6.

Category: Fixes?
Description:?
    [95600] No M.2 NVMe sensor reading in IPMI.

Impact motherboard:?
    X11DPT-B + BPN-ADP-6S3008N3-2UB

Affected functions:?
    Validation :?
1. Check if BPN ART sensor appears.

7.
Category: Fixes?
Description:?
    [94617] No sensor reading for AOC-SLG3-8E2P in IPMI.

Impact motherboard:?
    X11SPW-TF.

Affected functions:?

Validation :?
    1. Check if AOC PLX sensor on IPMI web page.

8.
Category: Feature
Description:
    Support Hynix memory for BMC

Impact motherboard:
    The MB has the Hynix memory
Affect functions:
Validation:
    1. BMC reset, check BMC version.
    2. A/C on/off, check BMC version

Filename: SMT_X11AST2500_161.bin version: 1.61 Date: 11-30-2018
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_11_15.xlsx

1.
Category: Fixes
Description:
    Fixed the issue [95339] IPMI SOL is not working.

Impact motherboard:
    All MBs.

Affected functions:
Validation :

1. (Optional) Enter the "Console Redirection Settings" in the
BIOS setup menu
           and set Resolution 100x31 to "Enabled".
        2. Launch JAVA SOL window from IPMI web.
        3. Check the output of the BIOS setup menu can be displayed to
row 31.

2.
    Category: Fixes
    Description:
        Fixed the issue [87593] IPMI--SMT_X11AST2500_144--Multiple Web UI
formatting issues

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Please refer to PB issue id 87593

3.
    Category: Fixes
    Description:
        Fixed the issue [94158] [DVT] Wrong behaviour for IPMI Web Date &
Time Configuration

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Enter page 'Date and Time'
        2. Try to set it with different time and try this multiple times
        3. Confirm that each time the configuration is saved successfully

4.
    Category: New feature
    Description:
        1. Clear all system event logs without generating any log.
        2. Dump all the system event logs.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation:
        1. Use the general file download command to verify the system
event logs can be successfully downloaded.
            # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfiledownload 22 log.txt
        2. Open the downloaded log file and verify it matches the IPMI
Web.
        3. Use the new OEM command to clear the system event logs and
then use generalfiledownload to check whether the log is empty.

```
            # ipmitool -H <IP> -U ADMIN -P ADMIN raw 0x30 0x70 0xfc 0x0
0x0 0x0 0x2
            # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfiledownload 22 log.txt
            # cat log.txt
```

5.
    Category: Fixes
    Description:
        Fixed the issue where the System status didn't reference PSU
state when AC loss.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Launch Redfish client tool
        2. Access the following URL to verify System status:
            GET   https://x.x.x.x/redfish/v1/Systems/1
        3. The health of the system status after removing the power cable
should be 'Critical'.

6.
Category: Fix
Description:
    [94419] BMC will damage after run ARP stress test over 24 hours.??
Impact motherboard:
  X11DPU

Affected functions:
  Validation :
    1.In network environment, issue huge (9W per sec.) ARP pack
      to network environment to target BMC IP address.
    2. Keep running 24 hr. then stop ARP attack then wait 90sec.
      to check BMC outband/inband if still work.
    3. If outband/inband can normally response, judge as PASS the test.

7.
Category: Fix
Description:
    Fix a side effect of redfish overall severity level. The issue will
    cause the session timeout after accessing system event log page. This
    issue may also cause BMC keep rebooting.

Impact motherboard:
    All MBs.

Affected functions:
Validation:
    1. Update BMC to 1.19.
    2. Login BMC Web GUI and open iKVM.
    3. Update to the latest BMC firmware.
    4. Login BMC Web GUI and enter system event log page in Maintenance.
```

5. The system event log should be shown correctly.

8.
Category: Fix
        Description:
            [95346] ISS compliance tool OOB function can't work properly

        Impact motherboard:
            All Cascade Lake MBs.

        Affected functions:
        Validation:
            1. get ISS configuration by using the following command
                ipmitool -H {BMC_IP} -U ADMIN -P ADMIN raw 0x2C 0x40 4 0 0
            2. set ISS configuration by using the following command
                ipmitool -H 172.31.34.72 -U ADMIN -P ADMIN raw 0x2C 0x41 4
0 0 1
            3. read the ISS configuration again and check if the index is
changed.
            4. For more detail about the command, please refer to the
spec:
                Intel RSD for Cascade Lake Platform firmware extension
specification.


--------------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_160.bin version: 1.60 Date: 11-14-2018
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_10_05.xlsx

1.
    Category:
        Feature

    Description:
        BMC support to monitor Broadcom storage controller 3008/3216 (HBA
/ Host Bus Adapter)
            1. Controller temperature
            2. Attached physical drive temperature
            3. Attached physical drive status

    Impact motherboard:
        X11DPU+, X11DPU-X, X11DPU-XLL, X11DPU-Z, X11DPU-ZE+, X11DPH, and
X11SPW-CTF

    Affected functions:
        Monitor 3008/3216 in sensor list and generate related event logs
by threshold or status is met or triggered

    Validation :
        1. Install 1~3 AOC-S3008L-L8E(AOC-S3216L-L16iT)

2. Check if 3008's firmware in IT mode
           (you can refer: FW Version -> 13.00.02.00
                           BIOS Version -> 08.31.00.00_15.00.02.00)
           And for 3216 you can refer:
                           FW Version -> 14.00.00.00
                           BIOS Version -> 08.31.03.00_16.00.00.00)
        3. Boot system and check if BIOS can detect these 3008/3216 or
not, if yes, go next (if not, please check BIOS)
        4. After system booted, check if BMC can detect 3008/3216 or not.
           4-1. Check following submenues -> "Server Health - Sensor
Readings" and "Server Health - Storage Monitoring"
           4-2. Heat or cool temperature of controller or hdd to check
"Server Health - Sensor Readings"
           4-3. Insert or remove hdd to check "Server Health - Sensor
Readings" and "Server Health - Event Log"
        5. Redfish APIs:
           Verify following redfish APIs and operations using
POSTMAN/Curl/Python script
           Item        Detail
           GET
/redfish/v1/Chassis/HBA.[contoller_num].StorageEnclosure.[enclosure_num]


           GET
/redfish/v1/Chassis/HBA.[contoller_num].StorageEnclosure.[enclosure_num]/
Drives/Disk.Bay.[disk_num]


           POST
/redfish/v1/Chassis/HBA.[contoller_num].StorageEnclosure.[enclosure_num]/
Drives/Disk.Bay.[disk_num]/Actions/Oem/Drive.Indicate
           (Expected result: Light on physical drive indication LED)
                        POST: {"Active": "true"} or {"Active": "false"}
then check "IndicatorLED" in

/redfish/v1/Chassis/HBA.[contoller_num].StorageEnclosure.[enclosure_num]/
Drives/Disk.Bay.[disk_num]

2.
    Category: Enhancement
    Description:
        Change the naming for Health Event Log & Maintenance Event Log in
Redfish.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation:
        1. Launch Redfish client tool

        2. Access the following URLs to verify Health Event Log function:
           GET   https://x.x.x.x/redfish/v1/Systems/1/LogServices
           GET   https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1
           GET
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Entries

```
        GET
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Entries/[log_num]

        3. Access the following URLs to verify Maintenance Event Log
function:
        GET    https://x.x.x.x/redfish/v1/Managers/1/LogServices
        GET    https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1
        GET
https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1/Entries
        GET
https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1/Entries/[log_num]
```

3.
    Category: Fix
    Description:
       [95208] [IPMI ECO 1.59] AOC NIC Threshold Does Not Follow Thermal
Guideline.

    Impact motherboard:
       AOC NIC sensor which displays on IPMI sensor reading web gui.

    Affected functions:
    Validation :
       1. Remove old SDR by 0x30 0x44 commands.
       2. Check if LNC, NC, LNR thresholds are 10, 5, 5 degrees to meet
thermal guide.

4.
    Category: Fix
    Description:
       [95107] [IPMI ECO] Redfish Automation Failed w/ 1 Critical Test
Case.
       [94938] Redfish automation failed 1 item.
       [94911] Redfish - Operator able to clear Eventlog and
Acknowledge.
       [94896] [IPMI ECO 1.59] Redfish automation tool check fail.
       [94855] [IPMI V1.59 ECO] SATC test is fail.

    Impact motherboard:
       All motherboards.

    Affected functions:
    Validation :
       1.Run Redfish automation tool and check the result.

5.
    Category: Fix
    Description:
       [94419] BMC will damage after run ARP stress test over 24 hours.

    Impact motherboard:
       X11DPU

    Affected functions:

```
    Validation :
        1.In network environment, issue huge ( 9W per sec.) ARP pack
          to network environment to target BMC IP address.
        2. Keep running 24 hr. then stop ARP attack then wait 90sec.
          to check BMC outband/inband if still work.
        3. If outband/inband can normally response, judge as PASS the
test.
--------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_159.bin version: 1.59 Date: 10-22-2018
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_10_05.xlsx

1.
    Description: Fix
        It cannot login by updating 1.58 FW.

    Impact motherboard:
        X11DPI HW 2.0, use MPS version.

    Validation :
        1.Programm HW version to "2.0" at fru1.
        2.Update 1.59.
        3.Check if we can login at web gui.
        4.Check the VRM sensor readings are good.

2.
    Description: Enhancement.
        [94632] Support onboard M.2 sensor reading.

    Impact motherboard:
        X11DDW-NT, X11DDW-L. HW version si over 1.11.

    Validation :
        1.Programm HW version to "1.11" at fru1.
        2.Update 1.59.
        3.Check if we can login at web gui.
        4.Check the VRM sensor readings are good.
--------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_158.bin version: 1.58 Date: 10-18-2018
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_10_05.xlsx

1.
    Description: Enhancement
        Migrated IPMI Event Log to the URL
"redfish/v1/Systems/1/LogServices" in Redfish.
        Renamed the function name from "Event Log" to "System Management
Log" in Redfish & Web UI.
```

```
    Impact motherboard:
        All MBs.

    Validation :
        1.Launch Redfish client tool
        2.Access the following URLs to verify System Management Log
function:
        GET    https://x.x.x.x/redfish/v1/Systems/1/LogServices
        GET    https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1
        GET
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Entries
        GET
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Entries/[entry num]
        POST
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Actions/LogService.
ClearLog
        POST
https://x.x.x.x/redfish/v1/Systems/1/LogServices/Log1/Actions/Oem/LogServ
ice.ClearAcknowledgements
        3.Access this page in BMC Web:
        BMC Web -> Server Health -> System Management Log

2.
    Category: New Features
    Description:
        Added BMC Event Log support in Redfish.
        Renamed the function name from "System Event Log" to "BMC Event
Log" in Web UI.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1.Launch Redfish client tool
        2.Access the following URLs to verify BMC Event Log function:
        GET    https://x.x.x.x/redfish/v1/Managers/1/LogServices
        GET    https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1
        GET
https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1/Entries
        GET
https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1/Entries/[entry
num]
        POST
https://x.x.x.x/redfish/v1/Managers/1/LogServices/Log1/Actions/LogService
.ClearLog
        3.Access this page in BMC Web:
        BMC Web -> Maintenance -> BMC Event Log

3.
    Category: Enhancement
    Description:
```

[93833]Customer is seeing inconsistent return codes (200, 500, 503) from this BMC using ApacheBench

Impact motherboard:
    All MBs.

Affected functions:
Validation :
    1.install ApacheBench (apt-get install apache2-utils)
    2.use cmd :ab -v10 -k -n1000 -c20 -A ADMIN:ADMIN
https://BMC_IP/redfish/v1 2>/dev/null|grep ^HTTP|sort|uniq -c
    3.check result the number of "HTTP/1.0 500 Internal Server Error"

4.
Category: Fix
Description:
    MB that installs Broadcom storage controller ??3108 with BBU (battery unit) on it will generate
    one BBU de-assertion event on every
    a.BMC reboot
    b.System reboot

Impact motherboard:
    All MBs that suitable for Broadcom storage controller 3108 and really install it.

Affected functions:
    3108??s event log for BBU status change

Validation :
    1. Find a MB that is suitable for Broadcom 3108 and install one
    2. Make sure 3108 is detected and shown in BMC??s WEB, go to clean out Event Log firstly and then update BMC with this version.
    3. After firmware update is done, go check if Event Log exists one for BBU
    4. Then try to reboot the BMC and system respectively to check if there is any BBU related event log.

5.
Category: Enhancement
Description:
    HW change VRM chip wiht MPS solution on 2.00.

Impact motherboard:
    X11DPI with HW version over 2.0.

Affected functions:
Validation :
    1.Write HW version over 2.00 at Fru1.
    2.Do 0x30 0x44 to remove old SDR.
    3.Check if VRM temperature reading work well at IPMI web gui.

Filename: SMT_X11AST2500_157.bin version: 1.57 Date: 09-xx-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_08_28.xlsx

1.
    Category: Fix
    Description:
        [93480] Reading of "BPN_M2_Temp" doesn't drive fans and its
threshold is not correct.

    Impact motherboard:
        X11DPT-B, X11DPT-BH with AOC-SMG3-2H8M2-B installed.

    Affected functions:
    Validation :
        1. Change if ART sensor shows up at IPMI sensor reading web gui.
        2. Heat AOC sensor and observe if the fan speed rises up.

2.
    Category: Fix
    Description:
        Fix DNS server IPv6 address can't remove.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Check Web page Configuration/Network/IPv6 Setting/DNS Server
IP, it can remove address success.

3.
    Category: Fix
    Description:
        [93165][NVMe N24]NVMe Eject and insert Event log fail.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Hot plug the NVMe drive and check if the slot described by the
SEL is correct.

4.
    Category: Fix
    Description:
        [94205] iKVM/HTML5 page has incorrect message if disable ikvm
port.

    Impact motherboard:
        All MBs.

```
    Affected functions:
    Validation :
        1. Disable the IKVM Server Port.
        2. Go to iKVM/HTML5 page, it had a pop-up message said
"undefined". The syndrome should not be seen anymore.
--------------------------------------------------------------------------------
----------------------------
Filename: SMT_X11AST2500_157.bin version: 1.57 Date: 10-04-2018
U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_08_28.xlsx

1.
    Category: Fix
    Description:
        [93480] Reading of "BPN_M2_Temp" doesn't drive fans and its
threshold is not correct.

    Impact motherboard:
        X11DPT-B, X11DPT-BH with AOC-SMG3-2H8M2-B installed.

    Affected functions:
    Validation :
        1. Change if ART sensor shows up at IPMI sensor reading web gui.
        2. Heat AOC sensor and observe if the fan speed rises up.
        3. Check the SDR thresholds if it meets thermal guide 4.06.

2.
    Category: Fix
    Description:
        Fix DNS server IPv6 address can't remove.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Check Web page Configuration/Network/IPv6 Setting/DNS Server
IP, it can remove address success.

3.
    Category: Fix
    Description:
        [93165][NVMe N24]NVMe Eject and insert Event log fail.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Hot plug the NVMe drive and check if the slot described by the
SEL is correct.
```

4.
    Category: Fix
    Description:
        [94205] iKVM/HTML5 page has incorrect message if disable ikvm
port.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Disable the IKVM Server Port.
        2. Go to iKVM/HTML5 page, it had a pop-up message said
"undefined". The syndrome should not be seen anymore.

5.
    Category: Enhancement
    Description:
        Change FAN1 to FAN
        Fan speed readings under Multi Node page are different from
readings in Sensor Readings page.

    Impact motherboard:
        X11SDD

    Affected functions:
    Validation:
        1. Check the fan rpm sensor reading.

6.
    Category: Enhancement
    Description:
        Add temp sensors for MLP and PCIE x16 slots
        Change fan sensor name as "FAN" rather than "FAN1"

    Impact motherboard:
        X11SDD

    Affected functions:
    Validation:
        1. Check the sensor readings.

7.
    Category: Fix
    Description:
        AOC NIC sensor threhold is not correct.

    Impact motherboard:
        AOC NIC cards whose tempeature can be monitored by BMC.

    Affected functions:
    Validation:
        1. Check the SDR thresholds if it meets thermal guide 4.06.

Filename: SMT_X11AST2500_156.bin version: 1.56 Date: 09-05-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_08_28.xlsx

1.
    Category: Fix
    Description:
        [93502] [IPMI ECO] There's FAN9 sensor reading on IPMIWeb but I
can't find the header on MB.

    Impact motherboard:
        X11DPU series

    Affected functions:
    Validation :
        1. Change the FAN9 to RSC FAN. (Based on PM's conclusion.)

2.
    Category: Fix
    Description:
        [93562] The system shows normal when the power fails.
        [93541] [SMT_X11AST2500_155_ECO] System Health Status did not
match with sensors health status.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation :
        1. Generate the PS Fail events.
        2. Check the sensor reading page.
        3. Check the System Health Status label.

3.
    Category: Fix
    Description:
        [91263] WebGUI NVME_SSD Temp displays as a "Not Present!" with
the drives of group 0.

    Impact motherboard:
         X11DPU

    Affected functions:
    Validation :
        1. Insert only one NVMe drive, check the NVMe_SSD Temp reading.
        2. Remove the NVMe drive, check the NVMe_SSD Temp reading. It
should be N/A.
        3. Insert back the NVMe drive, check the NVMe_SSD Temp reading.
It should have temperature.

4.
    Category: Fix
    Description:
        Fix Timeout value for graceful shutdown feature fail.

    Impact motherboard:
        All MBs(PWS-1K01B-1R).

    Affected functions:
    Validation :
        1. Check Server Health/Power Source page for Timeout value for
graceful shutdown feature.

5.
    Category: Fix
    Description:
        Fix update SSL certificate file fail.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Check Configuration/SSL Certification page for upload SSL
Certificate and Private Key.

Filename: SMT_X11AST2500_155.bin version: 1.55 Date: 08-15-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.13
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_08_14.xlsx

1.
    Category: New Features
    Description:
        TaskService feature is supported during BMC and Broadcom storage
controller update in Redfish.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Issue the following request with GET method and expect to
receive a response
           with TaskService information.
           URL:
                https://{BMC IP}/redfish/v1/TaskService
        2. Issue the following request with GET method and expect to
receive a response

with Tasks information and members.
URL:
https://{BMC IP}/redfish/v1/TaskService/Tasks
3. Issue the following request with GET method and expect to receive a response
with Task information and messages.
URL:
https://{BMC IP}/redfish/v1/TaskService/Tasks/[task_id]
4. Configure "ServiceEnabled" parameter of TaskService by issuing the following request with
PATCH method and expect to receive a response with "Successfully Completed Request".

1 parameter:
"ServiceEnabled" can be configured to true or false
is required in the request body.

URL:
https://{BMC IP}/redfish/v1/TaskService
Example request body in JSON:
{
    "ServiceEnabled": true
}

2.
Category: New Features
Description:
Add parameter (SkipCheckingME) for BIOS update in Redfish to skip ME checking.

Impact motherboard:
All MBs.

Affected functions:
Validation :
1. Enter BIOS update mode by issuing the following request with
POST method and expect to receive a response with "Successfully Completed Request"

URL:
https://{BMC_IP}/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.EnterUpdateMode
Request body:
{
    "SkipCheckingME" : true
}

2. Upload BIOS image by issuing the following request with POST method and expect to receive a response with "Successfully Completed
Request" The content type must be "multipart/form-data"

URL:

https://{BMC_IP}/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Upload
            Request header:
                Content-Type = multipart/form-data
            Request body:
                Since header indicate "form-data", please add a form
parameter as "File"
                Parameter name: don't care
                Paremeter file: browse BIOS firmware file to attach

        3. Start to update BIOS by issuing the following request with POST
           method and expect to receive a response with "Successfully
Completed Request"
           3 parameters -
                PreserveME
                PreserveNVRAM
                PreserveSMBIOS
           are required in the request body.

           URL:

https://{BMC_IP}/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Update
           Example request body in JSON:
                {
                    "PreserveME" : true,
                    "PreserveNVRAM" : true,
                    "PreserveSMBIOS" : true
                }

        4. Check the BIOS update status by issuing the following request
           with GET method and expect to receive a response with BIOS
information.

           URL:

https://{BMC_IP}/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS

3.
    Category: New Features
    Description:
        Support Redfish SimpleUpdate for BMC, BIOS FW

    Impact motherboard:
        All MBs.

    Validation :
        1. Prepare FTP, HTTP, HTTPS file server, and put BMC, BIOS FW
inside for downloading
        2. Check /redfish/v1/UpdateService/SimpleUpdateActionInfo for
SimpleUpdate parameter
        3. POST
/redfish/v1/UpdateService/Actions/UpdateService.SimpleUpdate

with following parameter example in json format:
```
{
  "ImageURI" : "<file ip>/<path and image file name>",
  "TransferProtocol" : "FTP",
  "Targets" : ["/redfish/v1/Managers/1"]
}
```
    4. Check /redfish/v1/TaskService/Tasks/<n>
        To find if Task for SimpleUpdate is running or terminated by an error message.
    5. If SimpleUpdate is running, check response http header of step 3 to find random TaskMonitor URL
        GET /redfish/v1/TaskMonitor/<random URL> to check TaskMonitor status
        When SimpleUpdate is finished, check URL is deleted.

4.
    Category: Enhancement
    Description:
        Change FirmwaveInventory to SmcFirmwaveInventory to prevent user confused with redfish standard define.
        (Once the HARAID upgrade has completed successfully. please reset the system)

    Impact motherboard:
      All MBs.

    Affected functions:
    Validation :
        1. Check info in
           /redfish/v1/UpdateService/SmcFirmwareInventory

/redfish/v1/UpdateService/SmcFirmwareInventory/BMC/Actions/SmcFirmwareInventory.EnterUpdateMode

/redfish/v1/UpdateService/SmcFirmwareInventory/BMC/Actions/SmcFirmwareInventory.Upload

/redfish/v1/UpdateService/SmcFirmwareInventory/BMC/Actions/SmcFirmwareInventory.Update

/redfish/v1/UpdateService/SmcFirmwareInventory/BMC/Actions/SmcFirmwareInventory.Cancel
        /redfish/v1/UpdateService/SmcFirmwareInventory/BIOS

/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.EnterUpdateMode

/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Upload

/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareInventory.Update

```
/redfish/v1/UpdateService/SmcFirmwareInventory/BIOS/Actions/SmcFirmwareIn
ventory.Cancel

/redfish/v1/UpdateService/SmcFirmwareInventory/HARAIDController.[controll
er_num]

/redfish/v1/UpdateService/SmcFirmwareInventory/HARAIDController.[controll
er_num]/Actions/SmcFirmwareInventory.EnterUpdateMode

/redfish/v1/UpdateService/SmcFirmwareInventory/HARAIDController.[controll
er_num]/Actions/SmcFirmwareInventory.Upload

/redfish/v1/UpdateService/SmcFirmwareInventory/HARAIDController.[controll
er_num]/Actions/SmcFirmwareInventory.Update

/redfish/v1/UpdateService/SmcFirmwareInventory/HARAIDController.[controll
er_num]/Actions/SmcFirmwareInventory.Cancel
```

5.
    Category: Enhancement
    Description:
        Change NodeManager to SmcNodeManager to prevent user
        confused with redfish standard define.

    Impact motherboard:
        All MBs which have ME.

    Affected functions:
    Validation :
        1. Check info in
           /redfish/v1/Systems/1/SmcNodeManager

```
/redfish/v1/Systems/1/SmcNodeManager/Actions/SmcNodeManager.ClearAllPolic
ies
```

6.
    Category: Fix
    Description:
        [92904] Redfish - 200 returned when PATCH PowerLimit over 32767.

    Impact motherboard:
        All MBs which have ME.

    Affected functions:
    Validation :
        1. Issue the following request with PATCH method and expect to
receive a response with
          Node Manager information when "PowerLimit" is configured from
0 to 32767.
          URL:
            https://{BMC IP}/redfish/v1/Systems/1/SmcNodeManager

7.

```
        Category: Fix
        Description:
            [92905] [DVT] Wrong PVNN voltage range.

        Impact motherboard:
            X11SDD.

        Affected functions:
        Validation :
            1. Update firmware (be sure to uncheck preserve SDR option).
            2. Check to see if threshold values for PVNN_DUAL has changed and
that the sensor reading value is within the thresholds.

8.
        Category: Fix
        Description:
            [93056] Sensor reading of "NVMe Temp" doesn't decrease.

        Impact motherboard:
            All MBs.

        Affected functions:
        Validation :
            1. Check the NVMe_SSD Temp reading.

9.
        Category: Fix
        Description:
            [92722] IPMI web shows system warning after update FW to 1.54.
            [91995] RedFish autmated Test fail.

        Impact motherboard:
            All MBs.

        Affected functions:
        Validation :
            1. Validate following critical/warning cases and check respective
health status in following Redfish APIs.
                It should be same.
                /redfish/v1/Systems/1
                /redfish/v1/Chassis/1
            2. Critical cases:
                2.1. Threshold sensors: The value is upper/lower Critical
values.
                2.2. All CPU related events.
                2.3. VBAT: Battery Fail.
                2.4. Chassis Intrusion.
                2.5. Memory events: Beside Correctable ECC.
            3. Warning cases:
                3.1. VBAT: Battery Low.
                3.2. Memory events:  Correctable ECC.
            4. The priority is: Critical > Warning > OK (Normal)

10.
```

```
    Category: Enhancement
    Description:
        Adjust C628 PCH voltage lower threshold.

    Impact motherboard:
        X11DPH-TQ.

    Affected functions:
    Validation :
        1. Update BMC FW and restore the SDR defaults.
        2. Check the PVNN_PCH reading is between UNC and LNC.

11.
    Category: Enhancement
    Description:
        The MAC address format goes back to "xx:xx:xx:xx:xx:xx" to
prevent backward compatibility.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Check the MAC format in IPMI WebGUI.
        2. It should be "xx:xx:xx:xx:xx:xx".

12.
    Category: Enhancement
    Description:
        Support M.2 NVMe SSD temperature sensor for X11DDW platform.

    Impact motherboard:
        X11DDW revision 1.11 and later.

    Affected functions:
    Validation :
        1. Set HW revision above "1.11".
        2. Issue the OEM command to reset to factory default.
        3. Check if "M2NVMeSSD Temp" sensor is shown in sensor list.

13.
    Category: Workaround
    Description:
        [91460] ME FW crash when running sum test.
        [91791] [BIOS ECO 3.1] ME FW crash when running sum test.
        [91823] [BIOS ECO 3.1] ME FW crash when running sum test.
        [91944] [BIOS ECO 2.1] IPMI web flash BIOS of downgrade SPS F/W
issue.
        [92714] [BIOS ECO 2.1] ME FW crash when BIOS flash back to
previous version.
        [92935] [BIOS ECO 3.1] ME FW crash when running sum test.
        [93002] [BIOS ECO] SUM Automation Test Failed.

    Impact motherboard:
```

All MBs which have ME.

    Affected functions:
    Validation :
        1. Run SMSTC BIOS_ECO test.

14.
    Category: Fix
    Description:
        IPMICFG and IPMITool can't change IPMIIPv6 mode.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Make sure the command "ipmi lan ipv6 mode 0" can be run
successfully.

15.
    Category: Fix
    Description:
        [93224] [DVT] No M.2 Temp Sensor.

    Impact motherboard:
        X11SDD.

    Affected functions:
    Validation :
        1. Check to see if the sensor reading for the M.2 sensor shows
when M.2 is installed.

Filename: SMT_X11AST2500_154.bin version: 1.54 Date: 07-25-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_07_23.xlsx

1.
    Category: Features
    Description:
        Support save 3108 storage controller status event.

    Impact motherboard:
        All MBs that are suitable and installed with 3108

    Affected functions:
    Validation :
        Please consult with Broadcom or Arun Karulli to do error
injection to
        make a fake controller error and check BMC event log

2.
    Category: Fix
    Description:
        [90609] CPLD (51 10) version displays in IPMI WebGUI does NOT
match CPLD fw loaded (5112_07282017.jed).

    Impact motherboard:
        X11DPU.

    Affected functions:
    Validation :
        1. Check the NVMe CPLD version.

3.
    Category: Fix
    Description:
        [91263] WebGUI NVME_SSD Temp displays as a "Not Present!" with
the drives of group 0.

    Impact motherboard:
        X11DPU

    Affected functions:
    Validation :
        1. Check the NVMe_SSD Temp reading.

4.
    Category: Fix (HW workaround)
    Description:
        Adjust the Rload of BPN_ADP_6SATA3H4_1UB is 4.75K.

    Impact motherboard:
        X11DPT-B + BPN_ADP_6SATA3H4_1UB.

    Affected functions:
    Validation :
        1. Check the node power consumption with the AC power. it should
be close.

5.
    Category: Fix
    Description:
        [91914] [BIOS ECO 2.1] BIOS existing date cannot display the
correct version and date on the BMC BIOS update page.

    Impact motherboard:
        X11DPU

    Affected functions:
    Validation :
        1. Based on 5/28/2018 or above BIOS images.
        2. Update the BIOS to another version.
        3. Check the original BIOS version/build date.

6.
    Category: Fix
    Description:
        [92035] IPMI web LAN MAC address format is incorrect.
        [92037] [IPMI 1.53] Inconsistency in BMC MAC address format.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Check the MAC format in IPMI WebGUI.
        2. It should be "xx-xx-xx-xx-xx-xx".

7.
    Category: Fix
    Description:
        [91823] [BIOS ECO 2.1] ME FW crash when running sum test.
        [91791] [BIOS ECO 2.1] ME FW crash when running sum test.

    Impact motherboard:
        X11 Purley motherboards.

    Affected functions:
    Validation :
        1. Run sum test on SMSTC.

8.
    Category: New Features
    Description:
        NIC / GPU Asset Information support on Redfish.

    Impact motherboard:
        All MBs which GPU sensor supported.

    Affected functions:
    Validation :
        1. Install NIC cards or GPU cards.
        2. Access Redfish URLs for asset information:
            NIC1 = /redfish/v1/Chassis/1/PCIeDevices/NIC1
            NIC2 = /redfish/v1/Chassis/1/PCIeDevices/NIC2
            ....
            GPU1 = /redfish/v1/Chassis/1/PCIeDevices/GPU1
            GPU2 = /redfish/v1/Chassis/1/PCIeDevices/GPU2
            ....

        Please check the attached document
GPU_NIC_Redfish_API_test_guide_v2.docx for more details.

        3. GPU Asset Info Support List. We do not support any GPU card
which is not on the list.

            0x118F,   // Tesla K10

```
        0x102D,          // Tesla K80
        0x13F2,          // Tesla M60
        0x17FD,          // Tesla M40
        0x1431,          // Tesla M4
        0x13BD,          // GRID M10
        0x15F9,          // Tesla P100 SXM2
        0x15F7,          // Tesla P100 PCIe 12G
        0x15F8,          // Tesla P100 PCIe 16G
        0x1B38,          // Tesla P40
        0x1BB3,          // Tesla P4
        0x1DB1,          // Tesla V100 SXM2 16G
        0x1DB4,          // Tesla V100 PCie 16G
        0x1DB5,          // Tesla V100 SXM2 32G
        0x1DB6,          // Tesla V100 PCie 32G
        0x1DB7,          // Tesla V100 PCie DGXS 32G
        0x1DBA,          // Quadro GV100
        0x17F0,          // Quadro M6000
        0x17F1,          // Quadro M6000 24GB
        0x13F0,          // Quadro M5000
        0x13F1,          // Quadro M4000
        0x1B30,          // Quadro P6000
        0x1BB0,          // Quadro P5000
        0x15F0,          // Quadro GP 100
```

9.
    Category: New Features
    Description:
        HW component status in Redfish/WebGui.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Validate following critical/warning cases and check respective
health status in following Redfish APIs.
           It should be same.
           /redfish/v1/Systems/1
           /redfish/v1/Chassis/1
        2. Critical cases:
           2.1. Threshold sensors: The value is upper/lower Critical
values.
           2.2. All CPU related events.
           2.3. VBAT: Battery Fail.
           2.4. Chassis Intrusion.
           2.5. Memory events: Beside Correctable ECC.
        3. Warning cases:
           3.1. Threshold sensors: The value is upper/lower Non-Critical
values. (Beside CPU)
           3.2. VBAT: Battery Low.
           3.3. Memory events: Correctable ECC.
        4. The priority is: Critical > Warning > OK (Normal)

    10.

Category: New Features
        Description:
            TaskService feature is supported during BIOS update in Redfish.

        Impact motherboard:
            All MBs.

        Affected functions:
        Validation :
            1. Issue the following request with GET method and expect to
    receive a response
                with TaskService information.
                URL:
                    https://{BMC IP}/redfish/v1/TaskService
            2. Issue the following request with GET method and expect to
    receive a response
                with Tasks information and members.
                URL:
                    https://{BMC IP}/redfish/v1/TaskService/Tasks
            3. Issue the following request with GET method and expect to
    receive a response
                with Task information and messages.
                URL:
                    https://{BMC IP}/redfish/v1/TaskService/Tasks/[task_id]
            4. Configure "ServiceEnabled" parameter of TaskService by issuing
    the following request with
                PATCH method and expect to receive a response with
    "Successfully Completed Request".

                1 parameter:
                    "ServiceEnabled" can be configured to true or false
                is required in the request body.

                URL:
                    https://{BMC IP}/redfish/v1/TaskService
                Example request body in JSON:
                {
                    "ServiceEnabled": true
                }

11.
    Category: New Features
    Description:
        Node Manager feature is supported in Redfish.

    Impact motherboard:
        All MBs which have ME.

    Affected functions:
    Validation :
        1. Issue the following request with GET method and expect to
    receive a response with
            Node Manager information.
            URL:

```
                https://{BMC IP}/redfish/v1/Systems/1/NodeManager
        2. Configure "PowerLimit" of Node Manager by issuing the
following request with PATCH
           method and expect to receive a response with "Successfully
Completed Request".

           3 parameters:
              "DomainID" must be configured to "Entire platform"
              "PolicyID" must be configured to 1
              "PowerLimit" can be configured from 0 to 65535
           are required in the request body.

           URL:
              https://{BMC IP}/redfish/v1/Systems/1/NodeManager
           Example request body in JSON:
           {
              "Policy": {
                 "DomainID": "Entire platform",
                 "PolicyID": 1,
                 "PowerLimit": 1100
              }
           }
        3. Clear all policies by issuing the following request with POST
method and expect to receive
           a response with "Successfully Completed Request".
           URL:
                https://{BMC
IP}/redfish/v1/Systems/1/NodeManager/Actions/NodeManager.ClearAllPolicies
           Request body:
                N/A

12.
    Category: New Features
    Description:
        New redfish feature for GUID/BoardID in Redfish.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. Issue the following request with GET method.
           URL:
                https://{BMC IP}/redfish/v1/Chassis/1
        2. Check if there are "GUID" and "BoardID" in "Oem" category.

13.
    Category: New Features
    Description:
        New redfish feature for event data extension in Redfish.

    Impact motherboard:
        All MBs.
```

```
    Affected functions:
    Validation :
        1. Issue the following request with GET method.
           URL:
               https://<BMC
IP>/redfish/v1/Managers/1/LogServices/Log1/Entries/[Entry_id]
        2. Check if there is "RawEventData" in "Oem" category.


14.
    Category: New Features
    Description:
        OEM event Description and Severity in Redfish/WebGui.


    Impact motherboard:
        All MBs.


    Affected functions:
    Validation :
        1. Check the newest excel Management_Standarization_SPEC_SEL.xlsx
for the latest
           OEM event/severity definition.
           There are 3 levels of severity:
               OK/Information
               Warning
               Critical
        2. Depend on excel file to issue a IPMI command to generate a
specific SEL record.
        3. In WebUI::Server Health::Event Log,
           Check if this SEL's description and severity meet the content
in Excel file.
        4. In Redfish::Managers::LogServices::Log1::Entries,
           Check if this SEL's description and severity meet the content
in Excel file.


15.
    Category: New Features
    Description:
        OEM Event Alert.


    Impact motherboard:
        All MBs.


    Affected functions:
    Validation :
        1. Check the newest excel Management_Standarization_SPEC_SEL.xlsx
for the latest
           OEM event/severity definition
           There are 3 levels of severity:
               OK/Information
               Warning
               Critical
        2. In WebUI::Configuration::Alerts,
           Setup 3 kinds severity levels for 3 Alert Destinations.
```

3. Depend on excel file to issue a IPMI command to generate 3
specific SEL record,
            which have Warning/Critical/Information severity levels.
        4. Check event alerts by Mail and PET Trap
            4.1. Check the Alert Destinations with Critical severity level
get Critical event alert
            4.2. Check the Alert Destinations with Warning severity level
get Critical and Warning event alerts
            4.3. Check the Alert Destinations with Information severity
level get Critical,
                Warning and Information event alerts.

16.
    Category: New Features
    Description:
        Provide Event Acknowledgment for the event with Warning/Critical
severity level.

    Impact motherboard:
        All MBs.

    Affected functions:
    Validation :
        1. In WebUI::Server Health::Event Log,
            1.1. Choose a ACK checkbox of a specific SEL record which has
Warning/Critical severity level.
            1.2. Click "Mark as Acknowledged" button.
            1.3. Power cycle/reset/BMC reset to check if ACK mark is still
there
            1.4. Click "Clear Acknowledgments" button.
            1.5. Check if all ACK marks are cleared
        2. In Redfish::Managers::LogServices::Log1::Entries::#n which has
Warning/Critical severity level.
            2.1 Patch
                {
                    "Oem": {
                        "Supermicro": {
                            "MarkAsAcknowledged": true
                        }
                    }
                }
            2.2 Check Redfish::Managers::LogServices::Log1::Entries::#n
oem property "MarkAsAcknowledged" status

Filename: SMT_X11AST2500_153.bin version: 1.53 Date: 05-30-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

1.

Category: Enhancement
Description:
    299 Form: 299-00-180504-001, Support Intel RSTe RAID status
reporting for TAS + BMC FW
    Support TAS ver. 1.5.2 and extended SEL explain for sensor type
0x0D(Drive Slot)

Impact motherboard:
     All MBs with TAS installed

Affected functions:
Validation :
    1. Install TAS ver. 1.5.2 with RAID configuration.
    2. Check if Drive Slot SELs in Web show the logical/physical slot
number
    3. Check info in
/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay
                        /redfish/
v1/Systems/1/Storage/RAIDIntegrated/Volumes/

2.
Category: Fix
Description:
    [90887] 3108 cannot be updated over ipmi web gui.
    [90881] IPMI fW 1.52 Failed to update 3108's FW over BMC's WEB
page if physical / logical HDD existed.

Impact motherboard:
     All MBs with SMC LSI 3108 card installed

Affected functions:
Validation :
    1. Update raid controller FW by Storage web gui.

3.
Category: Fix
Description:
    [90027] Fan RPM fluctuates with IPMI v1.48 when M.2 reading is
present.

Impact motherboard:
    X11DPH HW 1.02 version after.

Affected functions:
Validation :
    1. Insert 2 M.2 NVMe devices.
    2. Heat one of M.2 NVMe device.
    3. Check the fan curve.

5.
Category: Fix
Description:
    [87765] [IPMI V1.43 FW ECO] The help page of iKVM/HTML5 console
didn't support multi-language and only support English.

Impact motherboard:
            All MBs

        Affected functions:
        Validation :
            1. Log in web page.
            2. To launch an iKVM over HTML5.
            3. Check the help page of iKVM/HTML5 console changes to different
language accordingly.

Filename: SMT_X11AST2500_152.bin version: 1.52 Date: 05-03-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

1.
    Category: Fix
    Description:
        [90415] No AOC card Temp when first power on by Intel(R) Xeon(R)
Gold 6142F CPU @ 2.60GHz.
        Some CPU can PASS but this CPU is FAIL.

    Impact motherboard:
        X11DPU

    Affected functions:
    Validation :
        1. Please install Omipath CPU (such as 6142F).
        2. AC off the system and does not insert Solarflare AOC cards.
        3. AC on the system and check the AOC sensor. It should not have
AOC_NIC_Temp sensors.
        4. AC off the system and insert Solarflare AOC cards.
        5. AC on the system and check the AOC_NIC_Temp readings are
correct.

2.
    Category: Fix
    Description:
        Adjust 12V threshold.

    Impact motherboard:
        X11DDW, X11DPG_O, X11DPI.

    Affected functions:
    Validation :
        1. Remove old SDR when new BMC FW is updated.
        2. Check the 12V threshold.

Filename: SMT_X11AST2500_151.bin version: 1.51 Date: 05-02-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

Please restore SDR defaults while update BMC FW.

1.
     Category: Fix (HW workaround)
     Description:
         Only support M.2 sensor reading afte HW 1.30 and vice versa.

     Impact motherboard:
         X11DPI motherboards.

     Affected functions:
     Validation :
         1. Change Board Version value as "1.3" on Fru1.
         2. restore SDR defaults by 0x30 0x44.
         3. Check the M.2 sensor reading exists.
         4. Change Board Version to "1.0", "1.1".
         5. restore SDR defaults by 0x30 0x44.
         6. Check the M.2 sensor reading does not exist.

2.
     Category: Fix (HW workaround)
     Description:
         [Customer issues] The machine will reset itself continuously.

     Impact motherboard:
         X11 motherboards.

     Affected functions:
     Validation :
         1. Run OS shutdown and OS power on script more than 100 cycles.
         2. The machines should work properly.

Filename: SMT_X11AST2500_150.bin version: 1.50 Date: 04-25-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

1.
     Category: Fix
     Description:
         [90104] RedFish auto test fail.
         [89926] Redfish API test fail.

```
    Impact motherboard:
        X11 MBs

    Affected functions:
    Validation :
        1. Run redfish automation tools.

2.
    Category: Fix
    Description:
        [90285] No Temperature Reading for Nvidia V100.

    Impact motherboard:
        X11DPU

    Affected functions:
    Validation :
        1. Check the sensor reading when V100 GPU is inserted.

--------------------------------------------------------------------------
------------
Filename: SMT_X11AST2500_149.bin version: 1.49 Date: 04-10-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

1.
    Category: New feature
    Description:
        Suport MB_NIC_temp 1 reading on AOC-URN4-b2XT

    Impact motherboard:
        X11 MBs of Ultra server with support this card type.

    Affected functions:
    Validation :
        1. Check MB_NIC_Temp1 reading is good.

2.
    Description: Fix
        [89927] [IPMI ECO] AC Power On Event log reported when BMC do
coldreboot.

    Impact motherboard:
        All MBs

    Affected functions:
    Validation :
        1. Disable AC Power On Event Log function (IPMI Web).
        2. Turn off AC powers.
        3. Turn on AC powers.
        4. Enable AC Power On Event Log function (IPMI Web).
```

```
        5. Unit Reset (IPMI Web).
        6. Check that AC Power On event log should not exist.

3.
    Description: Fix
        Fix Solarflare NIC sensor display problem.

    Impact motherboard:
        X11DPU.

    Affected functions:
    Validation :
        1. Insert 2 Solarflare NIC cards.
        2. Power on the system, there are 2 AOC_NIC Temp sensors show up.
        3. Check if the senosr readings are good.
------------------------------------------------------------------------
------------
Filename: SMT_X11AST2500_148.bin version: 1.48 Date: 04-03-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_03_16.xlsx

1.
    Category: Fix (HW Workaround)
    Description:
        Show FANA - FAND sensors when BPN-ADP-xx-1UB card is inserted.

    Impact motherboard:
        X11DPT-BH with BPN-ADP-xx-1UB card.

    Affected functions:
    Validation :
        1. Install BPN-ADP-xx-1UB card.
        2. Check if BPN Field on FRU1 is "X11DPT-BH".
        3. Check FAN sensor names are FANA - FAND.

2.
    Category: Fix
    Description:
        [88363] There is no Processor Automatically Throttled events when
the CPU is overheating.

    Impact motherboard:
        X11DPG-OT

    Affected functions:
    Validation :
        1. 2 power supplies are inserted.
        2. AC power off on one power supply.
        3. Heat the CPU.
        4. The processor hot event should be existed.
```

3.
    Category: Fix
    Description:
        [88689] One of Devices at IPMI WebGUI Health NVMe SSD page did
not display (6) NVMe SSD devices.

    Impact motherboard:
        X11DPT-B (2U2N and 2U4N)

    Affected functions:
    Validation :
        For 2U2N:
            It should have 2 NVMe devices, and 6 drive slots for each.
        For 2U4N:
            It should have 1 NVMe device, and 6 drive slots.

4.
    Category: Features
    Description:
        Revised redfish firmware inventory (bios/bmc update). Please also
        refer new Redfish document - "
Redfish_API_full_list_2018_03_16.xlsx "

    Impact motherboard:
        All MBs

    Affected functions:
        "Actions" name changed

    Validation :
        Before test firmware update, you need to install the DHC (By
Restlet) Chrome extension:

            https://chrome.google.com/webstore/detail/restlet-client-dhc/

        [BIOS update]
        1. Enter BIOS update mode by issuing the following request with
            POST method and expect to receive a response with
"Successfully Completed Request"

            URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/O
em/FirmwareInventory.EnterUpdateMode
            Request body:
                N/A

        2. Upload BIOS image by issuing the following request with POST
            method and expect to receive a response with "Successfully
Completed
            Request" The content type must be "multipart/form-data"

            URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BIOS/Actions/
Oem/FirmwareInventory.Upload
            Request header:
                Content-Type = multipart/form-data
            Request body:
                Since header indicate "form-data", please add a form
parameter as "File"
                Parameter name: don't care
                Paremeter file: browse BIOS firmware file to attach

        3. Start to update BIOS by issuing the following request with POST
            method and expect to receive a response with "Successfully
Completed Request"
            3 parameters -
                PreserveME
                PreserveNVRAM
                PreserveSMBIOS
            are required in the request body.

            URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BIOS/Actions/
Oem/FirmwareInventory.Update
            Example request body in JSON:
                {
                    "PreserveME" : true,
                    "PreserveNVRAM" : true,
                    "PreserveSMBIOS" : true
                }

        4. Check the BIOS update status by issuing the following request
            with GET method and expect to receive a response with BIOS
information.

            URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BIOS

        5. Cancel is doable in some stages once you see it is shown in
the
            response payload every time you GET this resource information
on -
            " https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC
". If
            shown there, it will be the following URL for you.

            URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/O
em/FirmwareInventory.Cancel

        [BMC update]

1. Enter BMC firmware update mode by issuing the following request with
      POST method and expect to receive a response with "Successfully Completed Request"

      URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.EnterUpdateMode
      Request body:
          N/A

2. Upload BMC image by issuing the following request with POST method
      and expect to receive a response with "Successfully Completed
      Request" The content type must be "multipart/form-data"

      URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.Upload
      Request header:
          Content-Type = multipart/form-data
      Request body:
          Since header indicate "form-data", please add a form parameter as "File"
              Parameter name: don't care
              Paremeter file: browse BMC firmware file to attach

3. Start to update BMC by issung the following request with POST method
      and expect to receive a response with "Successfully Completed Request"
      3 parameters -
          PreserveCfg
          PreserveSdr
          PreserveSsl
      are required in the request body.

      URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.Update
      Example request body in JSON:
          {
              "PreserveCfg" : true,
              "PreserveSdr" : true,
              "PreserveSsl" : true
          }

4. Check the BMC firmware information by issuing the following request with
      GET method and expect to receive a response with BMC information.

URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC

5. Cancel is doable in some stages once you see it is shown in
the
   response payload every time you GET this resource information
on -
   " https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC
". If
   shown there, it will be the following URL for you.

URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/O
em/FirmwareInventory.Cancel

5.
   Category: Features
   Description:
      New redfish firmware inventory (3108 storage controller) to
update firmware is suppoted.
      Please also refer new Redfish document - "
Redfish_API_full_list_2018_03_16.xlsx "

   Impact motherboard:
      MBs that are suitable for 3108 and really install one on it

   Affected functions:
      Update 3108's ROM via Redfish

   Validation :
      Before test firmware update, you need to install the DHC (By
Restlet) Chrome extension:

         https://chrome.google.com/webstore/detail/restlet-client-dhc/

   1. Enter 3108 update mode by issuing the following request with
      POST method and expect to receive a response with
"Successfully Completed Request"

URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/HARAIDControl
ler.{controller_num}/Actions/Oem/FirmwareInventory.EnterUpdateMode
      Request body:
         N/A

   2. Upload 3108 ROM by issuing the following request with POST
method and
      expect to receive a response with "Successfully Completed
Request".
      The content type must be "multipart/form-data"

```
        URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/HARAIDControl
ler.{controller_num}/Actions/Oem/FirmwareInventory.Upload
        Request header:
            Content-Type = multipart/form-data
        Request body:
            Since header indicate "form-data", please add a form
parameter as "File"
            Parameter name: don't care
            Paremeter file: browse ROM file to attach

    3. Start to update 3108 by issuing the following request with POST
       method and expect to receive a response with "Successfully
Completed Request"

        URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/HARAIDControl
ler.{controller_num}/Actions/Oem/FirmwareInventory.Update
        Request body:
            N/A

    4. Check the 3108 update status by issuing the following request
       with GET method and expect to receive a response with BIOS
information.

        URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/HARAIDControl
ler.{controller_num}

    5. Cancel is doable in some stages once you see it is shown in
the
       response payload every time you GET this resource information
on -
       " https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC
". If
       shown there, it will be the following URL for you.

        URL:

https://{BMC_IP}/redfish/v1/UpdateService/FirmwareInventory/HARAIDControl
ler.{controller_num}/Actions/Oem/FirmwareInventory.Cancel

6.
    Category: Features
    Description:
        New Redfish features for download/upload ipmi confiuration.
        This function is equivalent to WEB UI like below
            "Maintenance"
                |
                |___"IPMI configuration"
```

```
                        |
                        |_ "Save IPMI Configuration"
                        |_ "Reload IPMI Configuration"

        Please also refer "Redfish_API_full_list_2018_03_16.xlsx ".

    Impact motherboard:
        All MBs

    Affected functions:
        IPMI configuration

    Validation:
        Before test firmware update, you need to install the DHC (By
Restlet) Chrome extension:

             https://chrome.google.com/webstore/detail/restlet-client-dhc/

        [Download("Save" in WEB)]
        1. Issue a POST on the following URL. After BMC replied done,
find a
           "Download" icon at the right-lower corner of DHC to press

           URL:

https://{BMC_IP}/redfish/v1/UpdateService/IPMIConfig/Actions/IPMIConfig.D
ownload
           Request body:
              N/A

        2. Then you can go to WEB UI to perform equivalent operation to
check both
           downloaded files size and content.

        [Upload("Reload" in WEB)]
        1. Upload configuration file by issuing the following request
with POST method and
           expect to receive a response with "Successfully Completed
Request".
           The content type must be "multipart/form-data"

           URL:

https://{BMC_IP}/redfish/v1/UpdateService/IPMIConfig/Actions/IPMIConfig.U
pload
           Request header:
              Content-Type = multipart/form-data
           Request body:
              Since header indicate "form-data", please add a form
parameter as "File"
              Parameter name: ipmi_config_file
              Paremeter file: browse a configuration file to attach

7.
```

Category: Features
Description:
    Revised Redfish "Actions" for clear event log.
    Please also refer "Redfish_API_full_list_2018_03_16.xlsx ".

Impact motherboard:
    All MBs

Affected functions:
    Clear event logs

Validation:
    Use POSTMan or DHC to issue a POST on the following new URL
    [Old]

https://{BMC_IP}/redfish/v1/Managers/1/LogServices/Log1/Actions/LogService.Reset
    [New]

https://{BMC_IP}/redfish/v1/Managers/1/LogServices/Log1/Actions/LogService.ClearLog

8.
    Category: Fix (Bios workaround)
    Description:
        Onlys support on-board M.2 NVMeSSD temperature reading after HW
1.02.

    Impact motherboard:
        X11DPH

    Affected functions:
        M.2 NVMeSSD sensor reading.
    Validation :
        1. Check if Board Version on Fru1 is "1.02".
        2. Check if M.2 NVMeSSD sensor appeared on sensor reading web
gui.
            If not, please do 0x30 0x44 to remove old SDR.
        3. Insert M.2 NVMeSSD and the temperature can be read on sensor
reading web gui.

Filename: SMT_X11AST2500_147.bin version: 1.47 Date: 03-13-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2018_02_22.xlsx

1.
    Category: Fix
    Description:
        [88689] One of Devices at IPMI WebGUI Health NVMe SSD page did
not display (6) NVMe SSD devices.

```
Impact motherboard:
    X11DPT-B with BPN-ADP-12NVME-2UB

Affected functions:
Validation :
    1. Check the NVMe SSD page. It should only have device0.
    2. Check the Sensor page. It should only have one NVMe Temp.
```

2.
```
Category: New feature
Description:
    [88228] M.2 NVMe temperature sensor is missing  BIOS.
    [88226] M.2 NVMe sensor is missing.

Impact motherboard:
    X11DPI, X11DPH

Affected functions:
Validation :
    1. Check the M.2 sensors shows on IPMI sensor reading web gui.
```

3.
```
Category: New feature
Description:
    Adaptive temperature threshold in SDR for drives connected to
3108

Impact motherboard:
    All MBs installed with 3108

Affected functions:
Validation :
    Threshold values in SDR for drives temperature is adaptive by
their types
    1. If all HDD(rotational hard drive), then threshold is (UC:55,
UNR:60)
    2. If all SSD, then threshold is (UC:70, UNR:75)
    3. If mix, then threshold is the same as HDD(rotational hard
drive)
```

4.
```
Category: Fix
Description:
    Change UTC zone time by SMCIPMITOOL commands.

Impact motherboard:
    All

Affected functions:
Validation :
    1. SMCIPMITool.jar $IP ADMIN ADMIN ipmi oem x10cfg ntp state
enable
```

```
        2. SMCIPMITool.jar $IP ADMIN ADMIN ipmi oem x10cfg ntp timezone
+0000
        3. SMCIPMITool.jar $IP ADMIN ADMIN ipmi oem x10cfg ntp primary
localhost
        4. SMCIPMITool.jar $IP ADMIN ADMIN ipmi oem x10cfg ntp secondary
127.0.0.1
        5. SMCIPMITool.jar $IP ADMIN ADMIN ipmi oem x10cfg ntp state
disable
        6. Repeat Step 1~5 several time.
        7. try to access BMC by ipmitool command or by web gui. it should
not have problems.
```

5.
```
    Category: New feature
    Description:
        Enable AC Power On Event log

    Impact motherboard:
        All MBs

    Affected functions:
    Validation :
        1. AC power off the system after new BMC FW is updated.
        2. AC power on.
        3. Check that AC Power On event log should exist.
```

6.
```
    Description:
        Remove FPGA VRM temperature sensor monitoring.

    Impact motherboard:
        X11DPH, X11DPG-OT, X11DPG-QT, X11DPX-T

    Affected functions:
    Validation :
        1. Update BMC FW and unchecked the preserve SDR after downloaded.
        2. Check sensor reading web gui.
```

7.
```
    Category: New feature
    Description: Add redfish memory information feature.
    Infected motherboard:
        All MBs
    Affected functions:
    Validation :
        1. check mothboard memory information from redfish(postman).
```

8.
```
    Category: New feature
    Description:
        Update 3108's FW over BMC's WEB page

    Impact motherboard:
        All MBs suitable for 3108 and also install with 3108
```

Affected functions:
    Validation :
        1. First of all, you must make sure firmware version of target
3108 is
            already flashed 4.680.00-8290 that support I2C-way only.
        2. Prepare two more 3108 FW files that are versioned as 4.650.00-
6223 and
            4.680.00-8290 respectively (You can download from project
board,
            ProjectID: 8259, zipped file name: AVG3108M6B3H101.rar and
            AVG3108M6E3H103.rar).
        3. Login BMC WEB and go to "Stoage monitoring" submenu, then go
            controller information's subpage and there shall be a button -
"ROM
            Update" for this feature.
        4. Please notice one thing - because I2C-way is a slow way to
flash
            3108, so it will take almost 30 minutes to complete whole
flashing
        5. Cross flashing and validation on the flashed version to see if
it
            is changed or not.

9.
    Category: New feature
    Description:
        Enable/disable 3108's JBOD mode over -
        1. BMC's WEB page
        2. Redfish API: "/redfish/v1/Systems/1/Storage/HA-RAID"

    Impact motherboard:
        All MBs suitable for 3108 and also install with 3108

    Affected functions:
    Validation :
        1. [WEB]
            Login BMC WEB and go to "Stoage monitoring" submenu, then go
            controller information's subpage and there shall be a
information
            about "JBOD Mode" with a drop-down menu for Enable/Disable.
        2. [BIOS]
            Current value of that drop-down menu means current setting of
JBOD
            mode. So pick up different value to "Save" and reset system to
go
            to 3108's BIOS configuration menu(during BIOS POST stage and
after
            3108 being 100% initialized, press "Ctrl + R" to enter 3108's
BIOS)
            to check if value is changed or not. After checking, please
let go
            this BIOS menu to unlock 3108 so as to let it free run again.
        3. [Redfish]

```
            Go to browse Redfish API - "/redfish/v1/Systems/1/Storage/HA-
RAID"
            and check the property, "JBODMode", whithin
"StorageControllers".
            Check if this value matches what you see in step 2.
        4. [Redfish]
            Finally to perform the "Actions" - "HARAIDControllers.Save" to
change
            jbod mode again.
            Operation details as below:
               URL:
                  https://${BMC_IP}/redfish/v1/Systems/1/Storage/HA-
RAID/Actions/Oem/HARAIDController.Save
               HTTP method:
                  PATCH
               Example Body:
                  {
                      "ControllerId": 0,
                      "BIOSBootMode": "PauseOnError",
                      "JBODMode": "Enable"
                  }

            After successful execution of this PATCH, go to step 2[BIOS]
to
            check again and of course you shall check again value in BMC
WEB,
            too.

10.
    Category: Enhancement
    Description:
        Adjust C628 PCH voltage lower threshold.

    Impact motherboard:
        X11DPH-TQ

    Affected functions:
    Validation :
        1. Update BMC FW and restore the SDR defaults.
        2. Check the PVNN_PCH voltage threholds.

---------------------------------------------------------------------------
------------
Filename: SMT_X11AST2500_146.bin version: 1.46 Date: 02-14-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2017_11_13.xlsx

1.
    Category: Fix
    Description:
        [88327] Unable to find NVMe page on IPMI web.
```

```
        [88094] VBAT check should support the range check.
        [88492] No FRU/FRU1 data


    Impact motherboard:
        X11DPT-LC
    Affected functions:
    Validation :
        1. Open the support define on board file.
        2. Modify the SDR file to change VBAT detection method.
        3. Set currect NVRAM mapping method.


2.
    Category: Fix
    Description:
        [88592] IPMI 1.45 returns wrong power reading in SPM.
        [88593] unable to get correct power readings after updating to
IPMI 1.45.
        [88633] The power reading in "power consumption" page is wrong.
        [88711] Total AVG power on SPM does not fluctuate with CPU power
consumption


    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Check Power Consumption from IPMI.


----------------------------------------------------------------------
--------------------------------
Filename: SMT_X11AST2500_145.bin version: 1.45 Date: 01-23-2018

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2017_11_13.xlsx


1.
    Category: Fix
    Description:
        [87342] CPU power consumption and frequency is unstable after
power policy is triggered.
        [86345] CPU power consumption and frequency is unstable after
power policy is triggered.


    Impact motherboard:
        X11DPT-B, X11DPFR
    Affected functions:
    Validation :
        1. Set the power policy.
        2. Check the power consumption value is not unstable.


2.
    Category: Enhancement
    Description:
```

[87185] X11DPT-BH IPMI All fans is not detected gating Fan PWM
testing.
        [86878] [EVT] Only 4 fans out of 6 are shown in IPMI SDR.

    Impact motherboard:
        X11DPT-BH
    Affected functions:
    Validation :
        1. Check and program motherboard name "X11DPT-BH" on FRU1.
        2. Insert 1U riser card and power on the system.
        2. The BMC will reboot twice.
        3. The FAN name is FANA-FAND.

3.
    Category: Fix
    Description:
        [87013] IPMI 1.43 - Redfish automation test fails
        [86921] Redfish automation failed 2 items

    Impact motherboard:
        X11DPU-z+, X11DPi-N
    Affected functions:
    Validation :
        1. Please run Redfish Automation Tool again.

4.
    Category: Fix
    Description:
        [87991] UI LED remain solid blue light on after default 15
seoncds.
        [86883] UID LED Does Not Turn Off When Triggered to Blink via
Ipmitool.

    Impact motherboard:
        X11DPT-B, X11DPT-PS
    Affected functions:
    Validation :
        1. Use "ipmitool chassis idneitfy" and wait for 15 seconds.
        2. Check the UID led is turned off.
        3. Use "ipmitool chassis idneitfy 8" and wait for 8 seconds.
        4. Check the UID led is turned off.

5.
    Category: New Feature
    Description:
        Support BBP2 feature.

    Impact motherboard:
        Install PWS-1K01B-1P power supplies.
    Affected functions:
    Validation :
        1. Check sensor reading web gui and check if anything wrong.
        2. Check power source web gui, it should have pmbus and bbp
information on it.

6.
    Category: Fix
    Description:
        [87863] Two AOC_NIC_Temp fields in sensor list.
        [87795] IPMI SDR shows two "AOC_NIC_Temp" when SIOM AOC-MTG-i4T
is installed.
        [87650] 3 AOC sensor readings show up with IPM v1.44 but only 2
AOCs are installed.
        [85529] SIOM sensor reading not working.

    Impact motherboard:
        The motherboards with SIOM slots.
    Affected functions:
    Validation :
        1. Check AOC_NIC_Temp sensor shows up at sensor reading web page.

Filename: SMT_X11AST2500_144.bin version: 1.44 Date: 01-12-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r37
Redfish API : Redfish_API_full_list_2017_11_13.xlsx

1.
    Category: Fix
    Description:
        [86560] GPU fan duty could fluctutate at constant ambient
temperature.
        [86558] Fan duty is not correct when multiple GPUs are present.
        [86557] GPU1 and GPU3 are regarded as the same thermal zone.
        [86516] GPU1 and 2 (for P40) are missing with IPMI v1.40 and BIOS
B27.
        [84782] RSC-G2F-A66-X1 sensor reading not working.

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Check the sensor web page when GPUs or SIOM/NIC cards are
inserted.
        2. Check the duty cycle of GPUs.
        3. Exchange 1U/2U riser cards and check if sensor reading are
correct.

2.
    Category: Fix
    Description:
        [86450] NO GPU READING.
        [86449] Fan mode is incorrect.
        [85706] X11DPG-OT: IPMI 1.37 does not have GPU Fan Cooling
Implemented.
        [85572] AOC sensor reading not working.

```
     Impact motherboard:
          X11DPG-OT
     Affected functions:
     Validation :
          1. Check the sensor web page when GPUs or SIOM/NIC cards are
inserted.
          2. Check the duty cycle of GPUs.
          3. Exchange X9/10 PCIE boards and check if sensor reading are
correct.

3.
     Category: Fix
     Description:
          [86003] nm oemgetpower power consumption is too low.

     Impact motherboard:
          X11DPT-B (2U4N)
     Affected functions:
     Validation :
          1. Check the power consumption value.

4.
    Category: New Motherboards
     Description:
           Support X11DPT-LC

     Impact motherboard: X11DPT-LC.
     Affected functions:
     Validation :

5.
     Category: Fix
     Description:
          [86875] pdating Nuvoton MCU FW on X11DPT-PS + BPN-SAS3-809H SKUs
Causes URL Not Found Error.
          [86873] URL Not Found Error When Trying to Update LCMC FW via BMC
WebGUI on X11DPT-PS + BPN-SAS3-809H.

     Impact motherboard:
          X11DPT-PS + BPN-SAS3-809H
     Affected functions:
     Validation :
          1. Try to update LCMC FW and Nuvoton FW.

6.
     Category: Enhancement
     Description:
          [85542] Fan PWM fail.

     Impact motherboard:
          X11DPX-T
     Affected functions:
     Validation :
```

1. measure the fan curve and fan speed of Inlet Temp (RT0) if
works properly.

7.
    Category: New feature
    Description:
        Intel OTA feature
        [86873] [X11SPW7.C06 BIOS ECO] "[Features] Implemented SMC OOB
TPM Provisioning via IPMI Feature for customized provisioning table."
item is fail.
        [86994] BIOS ECO]SMC OOB TPM Provisioning via IPMI Feature for
customized provisioning table test fail.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1.The feature test is passed with
sum_2.1.0_Linux_x86_64_20171228.tar tool.
        2.Use BIOS version with support TPM provisioning.
        3.Run "./sum -c TpmManage -i "SUT_BMC_IP" -u ADMIN -p ADMIN --
provision --table table.bin --reboot"

9.
    Category: Fix
    Description:
        [87013] IPMI 1.43 - Redfish automation test fails

    Impact motherboard:
        X11DPU-z+
    Affected functions:
    Validation :
        1. Please run Redfish Automation Tool again.

10.
    Category: Enhancement
    Description:
        [87185] X11DPT-BH IPMI All fans is not detected gating Fan PWM
testing.
        [87060] [EVT] FP OH LED is off and no IPMI events are recorded in
IPMI SEL when CPUs are overheating.
        [86878] [EVT] Only 4 fans out of 6 are shown in IPMI SDR.

    Impact motherboard:
        X11DPT-BH
    Affected functions:
    Validation :
        1. Insert 1U riser card and power on the system.
        2. The BMC will reboot twice.
        3. The FAN name is FANA-FAND.

11.
    Category: Fix
    Description:

[87392] [IPMI ECO v1.43] IPMI VBAT detection is wrong.

    Impact motherboard:
        X11SPL-F
    Affected functions:
    Validation :
        1. Check VBAT on sensor page

Filename: SMT_X11AST2500_143.bin version: 1.43 Date: 12-18-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_11_13.xlsx

1.
    Category: Fix
    Description:
        [86449] Fan mode is incorrect.

    Impact motherboard:
        X11DPG-OT
    Affected functions:
    Validation :
        1. Check the Fan page.

2.
    Category: Fix
    Description:
        [86003] nm oemgetpower power consumption is too low.

    Impact motherboard:
        X11DPT-B (2U)
    Affected functions:
    Validation :
        1. Check the power consumption value.

3.
    Category: Fix
    Description:
        [86520] BMC Multi-Node Page is Displaying the Wrong LCMC FW
Version for SYS-1029TP-DTR/DC0R/DC1R (X11DPT-PS + BPN-SAS3-809H).
        [86519] LCMC FW Update Option Gone After Updating to 1.40 BMC FW
on SYS-1029TP-DTR (X11DPT-PS + BPN-SAS3-809H).

    Impact motherboard:
        X11DPT-PS + BPN-SAS3-809H

    Affected functions:
    Validation :
        1. Check the LCMC version and Nuvoton version.

2. Check the LCMC upload web and Nuvoton upload web show up at the same time.

4.
    Category: Fix
    Description:
        [86241] NVME SSD Tab doesn't allow you to access 6 to 11 for BPN-ADP-12NVME-2UB.

    Impact motherboard:
        X11DPT-B (2U)
    Affected functions:
    Validation :
        1. Check the NVMe SSD page.
        2. Select the device 1 for 6~11 drives.

5.
    Category: Fix
    Description:
        [86390] Redfish 4 test items failed

    Impact motherboard:
        X11DPH-i/T/Tq
    Affected functions:
    Validation :
        1. Please run Redfish Automation Tool again.

6.
    Category: Fix
    Description:
        [86184] 24 Fail test case for Redfish Automation Tool

    Impact motherboard:
        X11DPT-B
    Affected functions:
    Validation :
        1. Please run Redfish Automation Tool again.

7.
    Category: Fix
    Description:
        [CRM SM1712205784] Mount ISO failure when the previous ISO link string is longer than the new one.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Use SUM or SMCIPMITool to mount http ISO. (E.g. http://xxx/file_01.iso)
        2. Umount ISO and then mount another iso file to a shorter name. (E.g, http://xxx/file.iso)
        3. HTTPS is not supported. Please use HTTP.

```
------------------------------------------------------------------------
----------------------------------
Filename: SMT_X11AST2500_142.bin version: 1.42 Date: 12-06-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_11_13.xlsx
```

1.
    Category: New feature
    Description:
        New Advance system event log
    Impact motherboard:
        All MBs
    Affected functions:
        All of the advance system event log
    Validation :
        1. New web for advance system event log
        2. add new advance system evnet log

2.
    Category: Fix
    Description:
        [86300] BMC Sensor Reading List is Missing One Fan for 1U 2-Nodes
TwinPro SKUs.

    Impact motherboard:
        X11DPT-PS
    Affected functions:
    Validation :
        1. Check the Fan Sensor: MB_FAN3.
        2. It should have reading value.

3.
    Category: Fix
    Description:
        [86343] Can't change fan mode & default fan is "standard fan
mode" instead of "PUE2" mode as current.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Check the Fan mode default setting is "optimal fan mode" if
there is oprimal fan mode.

4.
    Category: Fix
    Description:
        Workaround for signal glitch issue caused by the I2C switch (U88)
between PCH & SMBUS.
        [86119] Missing Storage Sensor Readings for 3108

```
    Impact motherboard:
        X11DPi / X11DPH
    Affected functions:
    Validation :
        1. Check LSI temp sensor.


5.
    Category: Enhancement
    Description:
        Disable MCTP support on Broadcom 3108 FW.
        Now it only supports I2C protocol.

    Impact motherboard: All MBs with 3108 storage controller
    Affected functions:
    Validation :
        1. Please use LSI card FW which supports I2C protocol(4.680.00-
8290).
        2. Check if AOC SAS temp sensor exists.

----------------------------------------------------------------------
---------------------------------
Filename: SMT_X11AST2500_140.bin version: 1.40 Date: 12-01-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.12
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_11_13.xlsx

1.
    Category: Fix
    Description:
        [86089] System does not reboot after flashing BIOS in web GUI.
        [86006] IPMI web BIOS update doesn't reset the system.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Use the webgui to update BIOS.
        2. After finishing the update, choose the reset system.

2.
    Category: Fix
    Description:
        [85975 ] VRMCpu2 Temp is shown as N/A - Not Present /w IPMI FW
1.38

    Impact motherboard:
        X11DPFR
    Affected functions:
    Validation :
        1. Check the sensor reading.

3.
```

Category: Fix
Description:
    NVMeSSD tab is missing when BPN-NVMe3-217BHQ is used.

Impact motherboard:
    X11DPT-B, BPN-NVMe3-217BHQ
Affected functions:
Validation :
    1. Check NVMeSSD tab exists.

4.
Category: Fix
Description:
    [85841] IPMI web gui didnt show up correct number of drives

Impact motherboard:
    MBD-X11SPL-F-P + AOC-3108 + BPN-SAS2-946LEL1
Affected functions:
Validation :
    1. Check WEB "Storage monitoring" submenu to find if 45 HDDs are presenting

5.
Category: Fix
Description:
    [85706] X11DPG-OT: IPMI 1.37 does not have GPU Fan Cooling Implemented.

Impact motherboard:
    X11DPG-OT
Affected functions:
Validation :
    1. Insert GPU cards.
    2. Check sensor reading web gui.

6.
Category: Fix
Description:
    [85971] SIOM AOC-MHFI-i1C temperature sensor reading in IPMI Web GUI is shown as N/A.

Impact motherboard:
    All MBs with AOC-MHFI-i1C
Affected functions:
Validation :
    1. Insert AOC-MHFI-i1C
    2. Check sensor reading web gui.

7.
Category: Fix
Description:
    [85953] Nuvoton MCU FW update page is showing wrong FW version number.
    [85952] Node B BMC web GUI can still update LCMC FW.

```
    Impact motherboard:
        X11DPT-PS + BPN-SAS3-809H
    Affected functions:
    Validation :
        1. Check web gui.
        2. Check EC version number if correct.

8.
    Category: Fix
    Description:
        [86172] No GPU AOC temp reading on IPMI sdr.

    Impact motherboard:
        X11DPX-T
    Affected functions:
    Validation :
        1. No GPU AOC temp reading on IPMI sdr.

9.
    Category: Fix
    Description:
        [86054] Missing 2 GPU temp sensors.

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Check the sensor reading.

10.
    Category: Enhancement
    Description:
        Improvement of multi-language content on the iKVM/HTML5 option
menu and submenu.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Log in web page.
        2. To launch an iKVM over HTML5.
        3. Check the option menu and submenu do not have missing
contents.

----------------------------------------------------------------------------
---------------------------------
Filename: SMT_X11AST2500_139.bin version: 1.39 Date: 11-17-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_11_13.xlsx
```

1.
     Category: Fix
     Description:
         Redfish APIs for Broadcom RAID volumes error
         Changes:
             Old: /redfish/v1/Systems/1/Storage/HA-RAID/HA-
RAID.[controller_num].Volume.[volume_num]
             New: /redfish/v1/Systems/1/Storage/HA-
RAID/Volumes/Controller.[controller_num].Volume.[volume_num]

     Impact motherboard:
         All MBs installed with 3108
     Affected functions:
         The API is error thus cannot access relative volume information
     Validation :
         1.Create logical drive through WEB
         2.Check the following APIs by the new document of Redfish API
list,
             /redfish/v1/Systems/1/Storage/HA-RAID
             /redfish/v1/Systems/1/Storage/HA-RAID/Volumes
             /redfish/v1/Systems/1/Storage/HA-
RAID/Volumes/Controller.[controller_num].Volume.[volume_num]
             /redfish/v1/Systems/1/Storage/HA-
RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/
Volume.Indicate
             /redfish/v1/Systems/1/Storage/HA-
RAID/Volumes/Controller.[controller_num].Volume.[volume_num]/Actions/Oem/
Volume.Delete
             /redfish/v1/Chassis/HA-
RAID.[contoller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[di
sk_num]

2.
     Category: Fix
     Description:
         [85840] "Inlet Temp" sensor is missing in fw 1.38.

     Impact motherboard:
         X11DPG-SN
     Affected functions:
     Validation :
         1.Check the sensor reading.

3.
     Category: Fix
     Description:
         [85844] [NVMe] Intel P4800 -> IPMI Eject feature not responding.

     Impact motherboard:
         All MBs
     Affected functions:
     Validation :
         1. Go to the NVMe SSD page, and eject one NVMe drive.
         2. It should eject successfully.

Filename: SMT_X11AST2500_138.bin version: 1.38 Date: 11-10-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_11_10.xlsx

1.
    Category: Fixes
    Description:
        [78563] No AOC temperature shown in IPMI Sensor Readings.

    Impact motherboard:
        X11DPT-PS
    Affected functions:
    Validation :
        1. Insert AOC-MHFl-i1C and power on the system.
        2. Change the SIOM to AOC-M25G-m2S.
        3. Power cycle the system and check the sensor.

2.
    Category: Fixes
    Description:
        [85660] Most of IPMI Sensors disappeared when update firmware to
ver.1.37.

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Check the sensor readings.

3.
    Category: Fixes
    Description:
        [85716] Help message is not mach with template.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Log in web page.
        2. Check all the help pages should be followed by Help Menu
Suggestions v1.8.

4.
    Category: New Features
    Description:
        Support HII in redfish.

    Impact motherboard:

```
        X11DPT-B, X11DPU, X11DPI
    Affected functions:
    Validation :
        1.GET
https://$BMC_IP/redfish/v1/Registries/BiosAttributeRegistry.v1_0_0 to
        know Attributes, Menus, Dependencies.
        2.GET https://$BMC_IP/redfish/v1/Systems/1/Bios to know which
          attributes that can be modified.
        3.PATCH or PUT https://$BMC_IP/redfish/v1/Systems/1/Bios to
modify
          attribute value.
        4.all the pendding value that be midified will show in
https://$BMC_IP/redfish/v1/Systems/1/Bios/SD
        After PATCH/PUT, please reset system to apply values to BIOS.
        5.Factory default: POST
https://$BMC_IP/redfish/v1/Systems/1/Bios/Actions/Bios.ResetBios"
        After POST, please reset system to apply values to BIOS.

5.
    Category: Fixes
    Description:
        [85785] [BIOS ECO] SUM test fail.
        [85770] SUM automation test failed
        [85702] IPMI FW1.37 sum automation test has 11 failed items
        [85690] [ SUM 2.0.0(2017/10/27) ] Test fail.
        [85416] IPMI OOB BIOS via SUM 2.0.0 failed on X11DP v01.36
firmware
        [84434] [BIOS ECO] SUM can not run due to invalid DMI information

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Run BMC FW on SMSTC.

6.
    Category: Fixes
    Description:
        [85328] [IPMI ECO] Battery low threshold failed, 2.55v is battery
fail

    Impact motherboard:
        X11DPG-QT
    Affected functions:
    Validation :
        1. Check the VBAT threshold(low, fail), it should meet the
        specification

--------------------------------------------------------------------------
---------------------
Filename: SMT_X11AST2500_137.bin version: 1.37 Date: 10-31-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
```

Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_08_04.xlsx

1.
    Category: Fixes
    Description:
        [85211] SUM GetBmcCfg failed.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Run sum GetBmcCfg command to verify it.

2.
    Category: Fixes
    Description:
        [85208] IPMI Web GUI Multi Node Page is Showing One Extra Node in
1U 2-Node TwinPro Configuration.

    Impact motherboard:
        X11DPT-PS, 1U TwinPro
    Affected functions:
    Validation :
        1. Check the Multi Node page.
        2. It should only has two nodes: Node A, B.

3.
    Category: Fixes
    Description:
        Remove Upper Critical event log on CPU sensors.
        Follow new thermal guide (SIM_TDG REV. 4.06).

    Impact motherboard:
        All
    Affected functions:
    Validation :
        1. Heat CPU until reproduce processor hot event to BMC.
           (Processor Automatically Throttled)
        2. No Upper Critical event log exists.
        3. Cool down the CPU temperature.
        4. No Upper Critical event log exists.

4.
    Category: Fixes
    Description:
        [85209] No Option to Update Nuvoton MCU Firmware on BPN-SAS3-809H
Backplane for 1U 2-Node TwinPro Systems.

    Impact motherboard:
        X11DPT-PS, 1U TwinPro
    Affected functions:
    Validation :
        1. Check the Nuvoton MCU update tab.

5.
    Category: Enhancement
    Description:
        Improvement of the help message descriptions follow Help Menu
Suggestions v1.8.

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1. Log in web page.
        2. Check all the help pages do not have missing contents.
        3. Check all the help pages should be followed by guideline
rules.

6.
    Category: Fixes
    Description:
        [85342] [IPMI ECO 1.36] Battery low threshold failed, 2.60v is
battery fail
        [85328] [IPMI ECO] Battery low threshold failed, 2.55v is battery
fail

    Impact motherboard:
        X11DPG-QT, X11SPW-CTF
    Affected functions:
    Validation :
        1. Check the VBAT threshold(low, fail), it should meet the
        specification

7.
    Category: Fixes
    Description:
        [85384] IPMI Multinode page only shows one out of two CPU
temperatures.

    Impact motherboard:
        X11DPT-B

    Affected functions:
    Validation :
        1. Check the CPU temperature in Multinode page.

8.
    Category: New Features
    Description:
        Support BPN-ADP-12NVME-2UB.

    Impact motherboard:
        X11DPT-B
    Affected functions:
    Validation :

9.
    Category: Enhancement
    Description:
        New "Nuvoton FW Update" UI.

    Impact motherboard: X11 Big Twin with BPN-SAS3-217BHQ-N4.
    Affected functions:
    Validation :
        1. There will be no EC1/EC2 option for MCU update. The update
process will update EC1/EC2 at the same time.

10.
    Category: Fixes
    Description:
        [85416] IPMI - OOB BIOS via SUM 2.0.0 failed on X11DP v01.36
firmware.
        [85541] IPMI FW 1.36 cannot flash BIOS with sum.

    Impact motherboard:
        All

    Affected functions:
    Validation :
        1. Run sum -c UpdateBIOS to update BIOS.

Filename: SMT_X11AST2500_136.bin version: 1.36 Date: 10-19-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_08_04.xlsx

1.
    Category: Features
    Description:
        Suppor new thermal guide (SIM_TDG REV. 4.06).
        [84739] Fan PWM fail for SIS_TDG 4.06

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        1.Update the FW and unselect the SDRBlock perservation.
        2.Check the sdr threshold.

2.
    Category: Fixes
    Description:
        [84663] [IPMI ECO 1.35] Can't read AOC-3108-H8i temp.

    Impact motherboard:
        All motherboards with RSC-UMR-8

Affected functions:
        Validation :
            1. Add RSC-UMR-8 and AOC-3108-H8i into the system.
            2. Power cycle the system and check the AOC_SAS_Temp sensor.

3.
        Category: Fixes
        Description:
            [84874] 2x U.2 NVME SSD cannot be detected in IPMI WebGUI.
            [84860] Fan Speed Control Not Working with Firmware Revision
01.35.
            [84767] No difference of fan mode between Standard Speed and Full
Speed for IPMI 1.35.
            [84739] Fan PWM fail for SIS_TDG 4.06

        Impact motherboard:
            All motherboards.
        Affected functions:
        Validation :
            1. Check the duty cycle after sesnor reading are started.
            2. It should not enter full speed.
            3. After changing the fan mode, the function work properly.

4.
        Category: Fixes
        Description:
            [84821] IPMI 1.35 doesn't displays link width value while 1.33
does.

        Impact motherboard:
            X11DPU+
        Affected functions:
        Validation :
            1. Check the NVMe page width value.

5.
        Category: Enhancement
        Description:
            Adjust VBAT's battery-low threshold from 2.7V to 2.6V for new
battery-cell BR2032.
        Impact motherboard: All Purley-based platforms.
        Affected functions: VBAT battery low detection.
        Validation :
            1. Remove the old SDR by oem command or do not preserve SDR
during firmware update.
            2. The sensor status shows "Battery presence detected" if the
battery voltage > 2.6V.
            3. The sensor status shows "Battery low" if the battery voltage
is between 2.5V and 2.6V.
            4. The sensor status shows "Battery failed" if the battery
voltage is below 2.5V.

6.
        Category: Fixes

Description:
        [84069] IPMI Fan Curve Validation Failure.

    Impact motherboard:
        X11QPH
    Affected functions:
    Validation :
        1. Power cycle the system.
        2. Check CPU3 and CPU4 voltage sensor reading.
        3. Repeat step1 and 2 more than 8 times.

7.
    Category: Features
    Description:
        Suppor redfish firmware inventory (bios/bmc update).

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
        Before testing the IPMI configuration download operation, you
need
        to install the DHC (By Restlet) Chrome extension:
        https://chrome.google.com/webstore/detail/restlet-client-dhc/

        BIOS update
        1. Enter BIOS update mode by issuing the following request with
        POST method and expect to receive a response with "Successfully
        Completed Request"

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/F
irmwareInventory.UploadBMC
        2. Upload BIOS image by issuing the following request with POST
        method and expect to receive a response with "Successfully
Completed
        Request" The content type must be "multipart/form-data"

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BIOS/Actions/Oem/
FirmwareInventory.UploadBIOS
        3. Start to update BIOS by issung the following request with POST
        method and expect to receive a response with "Successfully
Completed
        Request" 3 parameters, PreserveME, PreserveNVRAM and
PreserveSMBIOS
        are required in the request body.

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BIOS/Actions/Oem/
FirmwareInventory.UpdateBIOS
        4. Check the BIOS update status by issuing the following request
        with GET method and expect to receive a response with BIOS
        information.
        https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BIOS/

        BMC update

1. Enter BMC firmware update mode by issuing the following
   request with POST method and expect to receive a response with
   "Successfully Completed Request"

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.EnterBMCUpdateMode
2. Upload BMC image by issuing the following request with POST
method
   and expect to receive a response with "Successfully Completed
   Request" The content type must be "multipart/form-data"

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.UploadBMC
3. Start to update BMC by issung the following request with POST
   method and expect to receive a response with "Successfully
Completed
   Request" 4 parameters, PreserveCfg, PreserveSdr, PreserveSsl and
   UpdateBootLdr are required in the request body.

https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC/Actions/Oem/FirmwareInventory.UpdateBMC
4. Check the BMC firmware information by issuing the following
   request with GET method and expect to receive a response with BMC
   information.
   https://<IP>/redfish/v1/UpdateService/FirmwareInventory/BMC/

Filename: SMT_X11AST2500_135.bin version: 1.35 Date: 09-29-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
    Category: Fixes
    Description:
        [84409] ipmi web GUI doesn't show NVMe SSD on Server Health.

    Impact motherboard:
        All motherboards with AOC-SLG-8E2P
    Affected functions:
    Validation :
        1. Add AOC-SLG-8E2P into the system.
        2. Check the NVMe page.

2.
    Category: Fixes
    Description:
        [84485] No Fan PWM Duty Shows UP for VRM Temp using SMCIPMITool.

    Impact motherboard:
        X10DAI-N

```
        Affected functions:
        Validation :
            1. Add VRM into FAN control.
            2. Check the FAN PWM by SMCIPMITool.


   3.
        Category: Features
        Description:
            Support Nvdia GPU GP100 (V100)

        Impact motherboard:
            All motherboards support Nvidia GP100
        Affected functions:
        Validation :


   4.
        Category: Fixes
        Description:
            [84399] No Sensor reading for AOC

        Impact motherboard:
            X11DPG-SN
        Affected functions:
        Validation :
            1. Insert AOC card on the MB
            2. web --> Server Health --> Sensor Readings
            3. You should see 'AOC_NIC_Temp' displays normally

   5.
        Category: Fixes
        Description:
            [83727] HW force throttling on CPU1 slot3 (GPU1)

        Impact motherboard:
            X11DPG-SN
        Affected functions:
        Validation :
            1. Please conduct stress tests to verify it.

   6.
        Category: Features
        Description:
            Support AOC-MHFI-i1C (SIOM)

        Impact motherboard:
            X11DPG-SN, X11DPT-PS, X11DPT-B-PLUS
        Affected functions:
        Validation :

   7.
        Category: Fixes
        Description:
            [84482] [Beta Package] ChassisIntrusion sensor shows :Not present
```

```
    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1.Check the chassis intrusion sensor from sensor page.

8.
    Category: Fixes
    Description:
        [84485] No Fan PWM Duty Shows Up for VRM Temp using SMCIPMITool.

    Impact motherboard:
        X11DAI
    Affected functions:
    Validation :
        1.Check the Fan Duty of VRM sensors.

9.
    Category: Features
    Description:
        SPEC Power

    Impact motherboard:
        X11DDW
    Affected functions:
    Validation :
    1. Only Paul Chiang know how to verify this
        Related command:
        ipmitool -H $IP -U ADMIN -P ADMIN raw 0x30 0x46 0x1 #turn on
        ipmitool -H $IP -U ADMIN -P ADMIN raw 0x30 0x46 0x0 #turn off

10.
    Category: Features
    Description:
        Add SEL for Memory RAS support

    Impact motherboard:
        All MBs
    Affected functions:
    Validation :
    1. Trigger SDDC or ADDDC event.
    2. You should see "System Memory RAS Feature Activated" in SEL log.


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Filename: SMT_X11AST2500_134.bin version: 1.34 Date: 09-20-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx


1.
```

```
    Category: Fixes
    Description:
        [83988] [BMC 1.32 ECO] LCMC update through IPMI Web GUI - Wrong
message is shown when clicking update.

    Impact motherboard:
        X11DPFR-SN
    Affected functions:
    Validation :
        1. Go to LCMC Update page -> Choose File
        2. Click update and check the description of pop out window.

2.
    Category: Enhancement
    Description:
        [84074] The default fan mode should be standard, not PUE2.

    Impact motherboard:
        X11DPT-PS
    Affected functions:
    Validation :
        1. Please do 0x30 0x40 command when BMC FW is updated.
        2. Check the default fan mode.

3.
    Category: Features
    Description:
        Support RSC-P2-88 and RSC-U2M2R-8-NI22

    Impact motherboard:
        All motherboards with RSC-P2-88 and RSC-U2M2R-8-NI22
    Affected functions:
    Validation :

4.
    Category: Fix
    Description:
        [83762] FAN E&F did not respond to fan mode change

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Make sure the FAN E&F are working correctly in different fan
modes.
5.
    Category: Fix
    Description:
        [83729] No inlet ambient temperature reading (RT0)

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
```

1. Check RT0 sensor in sensor page.
6.
    Category: Fix
    Description:
        [83727] HW force throttling on CPU1 slot3 (GPU1)

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Please conduct stress tests to verify it.
7.
    Category: Fix
    Description:
        [83726] No GPU Temp. reading

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Check GPU sensor in sensor page.

8.
    Category: Fix
    Description:
        [83455] X11DPG-SN IPMI: Fan Modes do not seem to be implemented

    Impact motherboard:
        X11DPG-SN
    Affected functions:
    Validation :
        1. Make sure the FANs are working correctly in different fan
modes.

9.
    Category: Fixes
    Description:
        [84069] IPMI Fan Curve Validation Failure.

    Impact motherboard:
        X11QPH
    Affected functions:
    Validation :
        1. Check the Vcpu3, Vcpu4, VDimmP3xxx, and VDimmP4xxx sensor
reading.
        2. Check P3 and P4 Memory Temp FAN duty report.

10.
    Category: Fixes
    Description:
        [83391] optimal mode (DZ3): fan control is fail.

    Impact motherboard:
        X11SPG

Affected functions:
        Validation :
            1. Heat up GPU
            2. Expect that the behavior should meet new thermal guide
----
--
Filename: SMT_X11AST2500_133.bin version: 1.33 Date: 09-07-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
    Category: Fixes
    Description:
        [83550] Server IP is False when disabled.

    Impact motherboard:
        All motherboards
    Affected functions:
    Validation :
        1. Set DDNS setting.
        2. Save the setting. And then disable.
        3. Check the column should be empty.

2.
    Category: Fixes
    Description:
        [83637] there is no NVME SSD tab under IPMI webgui BIOS 8-23 IPMI
1.29 NVME:P4500x 24

    Impact motherboard:
        X11DPU+
    Affected functions:
    Validation :
        1. Support AOC-2UR6N4-IN0001
        2. Connect the Oculink cable from AOC-2UR6N4-IN0001 to BP.
        3. Check the NVMe page.

3.
    Category: Fixes
    Description:
        [83723] Random "NVME inserted Assertation" messages under IPMI
SEL.

    Impact motherboard:
        X11DPU-Z+
    Affected functions:
    Validation :
        1. Reset BMC.
        2. Check the SEL page. It should not have "NVMe Inserted -
Assertion" SEL.

4.
    Category: Fixes
    Description:
        [82390] fan duty fluctuates when multiple AVAGO 3108 AOCs exist

    Impact motherboard:
        All MBs with mutiple LSI3108
    Affected functions:
    Validation :
        1. Make sure that MB can be installed 2 AOC-S3108L-H8iR
        2. Heat one of that 2 AOC to make they have temperature
difference
        (and make sure 3108 will dominate the fan duty) then check if
there
        will be any fluctuation on fan rotation

5.
    Category: Fixes
    Description:
        [83332] IPMI sensor reading issue

    Impact motherboard:
        X11DPX-T
    Affected functions:
    Validation :
        1.Check the sensor readings.

6.
    Category: Fixes
    Description:
        [83827] IPMI webGUI, NVMe locate LED fail, Red LED not flashing.

    Impact motherboard:
        X11DPU-Z and NVME3-216N-S4
    Affected functions:
    Validation :
        1. Press the Locate/Dislocate button in NVMe SSD page.
        2. Check the Red locate LED behavior.

7.
    Category: Fixes
    Description:
        [83828] IPMI, NVMe eject fail.

    Impact motherboard:
        X11DPU-Z and NVME3-216N-S4
    Affected functions:
    Validation :
        1. Press the Eject/Insert button in NVMe SSD page.
        2. Check the Eject/Insert result.

8.
    Category: Fixes
    Description:

[83908] ME NM not support?

    Impact motherboard:
        X11DPU-XLL
    Affected functions:
    Validation :
        1. Issue SMCIPMITool nm20 deviceid

Filename: SMT_X11AST2500_132.bin version: 1.32 Date: 08-25-2017

U-Boot build time : 2013.01 (Aug 09 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
    Category: Fixes
    Description:
        [83165] Temperatures of CPUVRM are "N/A".

    Impact motherboard:
        X11DRU-X
    Affected functions:
    Validation :
        1. Check VRM sensor reading.

2.
    Category: Enhancement
    Description:
        Remove the scrollbar and move the buttons to the top.

    Impact motherboard:
        All Purley platforms.
    Affected functions:
    Validation :
        1. Log in web page.
    2. Confirm the following page:
        Server Health --> Sensor Readings
            Server Health --> Event Log
            Configuration --> Alerts
            Configuration --> Active Directory
            Configuration --> Users
            Configuration --> IP Access Control
            Maintenance --> System Event Log
    3. Check the scrollbar does not appear in table.
    4. Check the buttons on the top.

3.
    Category: Fixes
    Description:
        [X11DPFR HW ECO] Revise HSP adress based on new HW requirement.

    Impact motherboard:

X11DPFR
    Affected functions:
    Validation :
        1. Check Multinode information.

Filename: SMT_X11AST2500_131.bin version: 1.31 Date: 08-09-2017

U-Boot build time : 2013.01 (Jul 13 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
    Category: Fixes
    Description:
        [83094] change fan mode fan duty is not normal.

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
        1. Install Xeon Phi to left side (fan A/B side)
        2. Change fan mode: full --> optimal
        3. Check duty cycle of left zone, should not be 0

2.
    Category: Fixes
    Description:
        [83096] GPU temp. increase, fan curve does not increase.

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
        1. Install Xeon Phi to left side (fan A/B side)
        2. Heat up Xeon Phi
        3. check duty cycle of it, it should meet thermal guide

3.
    Category: Fixes (workaround for HW)
    Description:
        [82504] System Temp sensor reading on IPMI Web is incorrect

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
        1. Ask HW to provide reworked MB
        2. Check MB LAN sensor, it should be there

Filename: SMT_X11AST2500_130.bin version: 1.30 Date: 08-02-2017

U-Boot build time : 2013.01 (Jul 13 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
    Category: Fixes
    Description:
        [82148] Default fan mode should not be PUE2, as per PM.

    Impact motherboard:
        X11DPU-i+, X11DPU-Z, X11DPU-X, X11DPU-XLL
    Affected functions:
    Validation :
        1. Go to Fan Control page.
        2. Check the default FAN mode is Optimal.

2.
    Category: Fixes
    Description:
        [82389] Need Optimal Fan Zone for SYS-1019GP-TT

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
        1. Go to Fan Control page.
        2. There should be optimal mode and no standard mode

3.
    Category: Fixes
    Description:
        [82391] GPU do not have fan control algorithm

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
        1. Heat up GPU
        2. Check the duty cycles of region 1/2, they should rise

4.
    Category: Fixes
    Description:
        [82582] [BIOS ECO] DIMM location string on POST didn't match with
MB
        silkscreen

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :

1. Trigger uncorrectable ECC error
            2. Check SEL, the word should be 'CPU' instead of 'CPU1'

5.
        Category: Fixes
        Description:
            [79487] X11DPH-T: Hardware monitor fail

        Impact motherboard:
            X11DPH
        Affected functions:
        Validation :
            1. Check VBAT presence by dropping to different voltage levels.

6.
        Category: Fixes
        Description:
            [82636] RPM of FAN A&B is too slow under HeavyIO Mode

        Impact motherboard:
            X11SPG-TF
        Affected functions:
        Validation :
            1. Heat up GPUs
            2. Check the duty cycle of installed GPUs, it should meet the
thermal
            guide specification

7.
        Category: Fixes
        Description:
            [82874] IPMI WebGUI: Undefined tag.

        Impact motherboard:
            X11DAi-N
        Affected functions:
        Validation :
            1. Change to Simplified Chinese.
            2. Check the Miscellaneous page.

Filename: SMT_X11AST2500_129.bin version: 1.29 Date: 07-18-2017

U-Boot build time : 2013.01 (Jun 28 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
        Category: Fixes
        Description:
            [81749] "LDAP" and "Active Directory" can be enabled at the same
time.

```
     Impact motherboard:
         All MBs
     Affected functions:
     Validation :
         1. Go to LDAP page and enable the LDAP setting.
         2. Go to Active Directory page and enable the setting.
         3. It should pop out window and deny the action.

2.
     Category: Fixes
     Description:
         [82011] Missing SAS temp on CPU3 PCIe and AOC_IB_Temp on WIO RSC.

     Impact motherboard:
         X11QPH + RSC-S2-66
     Affected functions:
     Validation :
         1. Insert the RSC-S2-66 onto CPU3 or CPU4 PCIe slot.
         2. Update the latest BIOS. (after 7/15/2017)
         3. It should not have AOC_IB Temp sensor.
         4. It should see SAS temp.

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Filename: SMT_X11AST2500_128.bin version: 1.28 Date: 07-13-2017
U-Boot build time : 2013.01 (Jun 28 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_07_11.xlsx

1.
     Category: Fixes
     Description:
         [81665] IPMI's NVMe slot ID in the pop up windows for 2nd 12 NVMe
is not matching.

     Impact motherboard:
         All MBs
     Affected functions:
     Validation :
         1. Go to NVMe SSD page.
         2. Locate/Stop Locate 2nd group NVMe drive.
         3. Check the pop out message.

2.
     Category: Fixes
     Description:
         [81152] No Add-on card sensor reading in IPMI Web when install it
on
         RSC-R1U-E16R Riser

     Impact motherboard:
         X11SPG-TF
```

```
    Affected functions:
    Validation :
        1. Insert AOC on either ONBOARD/RSC-R1UG-E16R-UP/RSC-R1UG-E16-UP
        2. web --> Server Health --> Sensor Readings
        3. You should see 'AOC_NIC_Temp' displays normally


3.
    Category: Enhancements
    Description:
        [79487] X11DPH-T: Hardware monitor fail. Change the color of
battery-low sensor state to yellow.

    Impact motherboard:
        All Purley platforms.
    Affected functions:
    Validation :
        1. Clean up browser cache.
        2. Check ipmi sensor page. The background color of VBAT in IPMI-
WEB must be yellow when battery-low is detected.


4.
    Category: Workaround
    Description:
        [81606] Node C and Node D hangs at post code 94, B2 3008
OptionRom post or MPT BIOS fault 0Dh during reboot test.

    Impact motherboard:
        X11DPT-B
    Affected functions:
    Validation :
        1. login BMC web
        2. check sensor page


5.
    Category: Fixes
    Description:
        [81874] IPMI 12V reading is lower than hardware measured.

    Impact motherboard:
        X11QPH
    Affected functions:
    Validation :
        1. Measured 12V and compare with IPMI reading.


6.
    Category: Fixes
    Description:
        [81894] Cannot detect GPU SDR.

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
    1. Setup 2 NVIDIA Tesla P100 on the system.
```

2. Power On the system and boot to OS.
    3. Check the Web SDR.
    4. Check the ipmitool SDR.

7.
    Category: Fixes
    Description:
        [81849] RPM of FAN A&B is too slow under HeavyIO Mode

    Impact motherboard:
        X11SPG-TF
    Affected functions:
    Validation :
    1. Power On the system and boot to OS.
    2. Log in the BMC Web.
    3. Navigate to Configuration -> Fan Mode and set to HeavyIO Speed.
    4. Check the FAN SDR.

Filename: SMT_X11AST2500_127.bin version: 1.27 Date: 06-28-2017
U-Boot build time : 2013.01 (Jun 28 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_06_07.xlsx

1.
    Category: Fixes
    Description:
        [80208] Reset BMC AOC-SAS(LSI 3108) IPMI Sensor Reading disappear

    Impact motherboard:
        All MBs with 3108
    Affected functions:
    Validation :
        1.Plug LSI3108 Raid Card in System
        2.Boot to System OS and Login IPMI Web GUI
        3.Check IPMI web Server Health/Senor Reading
        4.LSI3108 info (AOC_SAS) present on Senor Reading
        5.Reset BMC
        6.Check Senor Reading AOC-SAS(LSI 3108) Reading again

2.
    Category: Fixes
    Description:
        [81540] System fan curve did not follow X11 GPU System Thermal
Design
        Guide Rev Draft B

    Impact motherboard:
        All GPU MBs
    Affected functions:
    Validation :
        1. Install GPUs on MB

```
        2. ipmitool -H $IP -U ADMIN -P ADMIN sensor list
        3. Check the threshold of installed GPUs, it should meet the
thermal
        guide specification

3.
    Category: Fixes
    Description:
        [79008] FP OH LED doesn't work.

    Impact motherboard: X11QPH
    Affected functions:
    Validation :
        1. Heat CPU to overheat.
        2. Check the OH LED is Red On.
        3. Cool CPU to TjMax-2 degree C.
        4. Check the OH LED is Off.

4.
    Category: Fixes
    Description:
        [81639] No fan PWM for NVMe_SSD Temp

    Impact motherboard:
        X11DPG-QT
    Affected functions:
    Validation :
        1. Check PWM reading for NVMe_SSD Temp, it should be there.

5.
    Category: Fixes
    Description:
        [81607] There is no FANB on Rev1.01MB

    Impact motherboard:
        X11DAI
    Affected functions:
    Validation :
        1.Update FW and select "remove SDR" option when BMC FW is
updating.
        2.Check the sensor.

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Filename: SMT_X11AST2500_126.bin version: 1.26 Date: 06-23-2017
U-Boot build time : 2013.01 (Jun 12 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_06_07.xlsx
1.
    Category: Fixes
    Description:
        [80962] No inlet temperature with FPB-TMP-001 Rev1.00
```

```
        Impact motherboard: X11DPG-QT
        Affected functions:
        Validation :
            1. web --> Server Health --> Sensor Readings
            2. You should see 'Inlet Temp' displays normally

2.
        Category: Fixes
        Description:
            [81152] No Add-on card sensor reading in IPMI Web when install it
on
            RSC-R1U-E16R Riser

        Impact motherboard: X11SPG-TF
        Affected functions:
        Validation :
            1. Insert RSC-R1U-E16R with AOC card onto board
            2. web --> Server Health --> Sensor Readings
            3. You should see 'AOC_NIC_Temp' displays normally

3.
        Category: Fixes
        Description:
            [81362] IPMI SEL no Throttling De-Assertion event
            [81366] Onboard buzzer stll has long beep sound after thermal
trip

        Impact motherboard: X11SPG-TF
        Affected functions:
        Validation :
            1. Heat up CPU until throttling happens
            2. You should see the 'Assertion' log and the buzzer beeps
            3. Stop Heating up CPU and wait for it to cool down
            4. You should see 'De-assertion' log and the buzzer stops

4.
        Category: Fixes
        Description:
            [81249][81274] Fixed DDNS enable/disable issue.
        Impact motherboard: All
        Affected functions:
        Validation :
            1. web --> Configuration --> Dynamic DNS
            2. It should be able to enable/disable

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Filename: SMT_X11AST2500_125.bin version: 1.25 Date: 06-16-2017
U-Boot build time : 2013.01 (Jun 12 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_06_07777777.xlsx
1.
        Category: Features
```

```
    Description:
        Change back power off time to 5.99 instead of 4.99.

    Impact motherboard: X11DPI
    Affected functions:
    Validation :
        1. Try the power off function repeatedly, and the function work
normally.
        2. Try the long press the power button, and the function work
normally.

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Filename: SMT_X11AST2500_124.bin version: 1.24 Date: 06-15-2017
U-Boot build time : 2013.01 (Jun 12 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_06_07777777.xlsx

1.
    Category: Fixes
    Description:
        [80953] GPU be Force Throttling on Slot 6 and Slot 8

    Impact motherboard: All
    Affected functions:
    Validation :
        1. When GPU is idle, it should not be forced throttling

2.
    Category: Fixes
    Description:
        [81013] [IPMI ECO 1.23]DCMS mods can't enabled syslog function
        [81105] [IPMI ECO 1.23] DCMS mods can't enabled syslog function
        [81131] No OOB key is required to read syslog
    Impact motherboard: All
    Affected functions:
    Validation :
        1. Deactivate all licenses
        2. Activate DCMS license
        3. Check the web syslog page, it should be available to use
        4. Verify OOB license with the above steps as well

3.
    Category: Fixes
    Description:
        [80962] No inlet temperature with FPB-TMP-001 Rev1.00

    Impact motherboard: X11DPG-QT
    Affected functions:
    Validation :
        1. web --> Server Health --> Sensor Readings
        2. You should see 'Inlet Temp' displays normally
```

4.
```
    Category: Fixes
    Description:
        [80657] missing sensor readings
        [81127] VBAT sensor reading doesn't change to new sensor types.
    Impact motherboard: X11DPH-T, X11DAI-N
    Affected functions:
    Validation :
        1. Check AOC sensor in sensor page.
```

5.
```
    Category: Fixes
    Description:
        [81106] FAN PWM test fail

    Impact motherboard: X11DPG-QT
    Affected functions:
    Validation :
        1. Heat up MB_10G to 90 degrees
        2. Observe the fan duty cycle and it should be 100
```

6.
```
    Category: Fixes
    Description:
        [79487] X11DPH-T:Hardware monitor fail

    Impact motherboard: X11DPH
    Affected functions:
    Validation :
        1. Login BMC web sensor page
        2. Check VBAT value
```

7.
```
    Category: Features
    Description:
        Support new MB C7X299

    Impact motherboard: C7X299
    Affected functions:
    Validation :
        1. Check C7X299 functions.
```

8.
```
    Category: Features
    Description:
        [79032] DIMM temperature sensor issues

    Impact motherboard: X11DPG-QT
    Affected functions:
    Validation :
        1. web --> Server Health --> Sensor Readings
        2. You should see P1-DIMMA2/P1-DIMMD2/P2-DIMMA2/P2-DIMMD2
```

9.

Category: Fixes
        Description:
            [80869] BPN revision # and CPLD version # display mismatch
between WebGUI & IPMICFG tools.

        Impact motherboard: X11DPFR
        Affected functions:
        Validation :
            1. Change the format type of version in multi node page.
            2. Sync with ipmicfg.

Filename: SMT_X11AST2500_123.bin version: 1.23 Date: 06-07-2017
U-Boot build time : 2013.01 (May 31 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_06_07.xlsx

1.
        Category: Fixes
        Description:
            [79966] Unable to update BIOS from 05/02/2017 to previous BIOS
04/18/2017.

        Impact motherboard: X11DPT-B+
        Affected functions:
        Validation :
            1. Update BIOS from 05/02/2017 to previous BIOS 04/18/2017
            2. Check the update result.

2.
        Category: Fixes
        Description:
            [80507] Hardware monitor sensor name issue
            [80363] VBAT IPMI reading fail.
        Impact motherboard: X11SPG-TF
        Affected functions:
        Validation :
            1. Web GUI --> Server Health --> Sensor Readings.
            2. Check that the sensor names follow rules.
            3. Check the VBAT sensor behavior.

3.
        Category: Feature
        Description:
            [Redfish] Patch an empty json payload "{}" to those APIs support
PATCH,
            a 204 http status code will be responded, while to those not
support PATCH,
            a 405 http status code will be responded.

        Impact motherboard:
            All MBs

```
    Affected functions:
        Redfish PATCH for different APIs
    Validation :
        1. Please refer the file "Redfish_API_full_list_2017_06_07.xlsx"
and patch
           an empty json payload, "{}", to each API to check http status
code.

4.
    Category: Feature
    Description:
        [Redfish] Nest ICANN domain in "Oem" part if there is data to
show

    Impact motherboard:
        All MBs
    Affected functions:
        Redfish "Oem" parts
    Validation :
        1. Check Redfish APIs response with "Oem" key, when there is data
           inside, a ICANN domain name (e.g. Supermicro) is nested as a
middle
           json payload container

5.
    Category: Enhancement
    Description:
        Redfish API rename:
        /redfish/v1/UpdateService/SSL ->
/redfish/v1/UpdateService/SSLCert
        /redfish/v1/UpdateService/SSL/Actions/SSL.Upload ->
/redfish/v1/UpdateService/SSLCert/Actions/SSLCert.Upload

    Impact motherboard: All
    Affected functions:
    Validation :
        Check Redfish APIs' URI of SSL related

6.
    Category: Enhancement
    Description:
        Change the license requirement of web GUI syslog from DCMS to OOB

    Impact motherboard: All
    Affected functions:
    Validation :
        1. web --> Configuration --> Syslog, should not be available for
use
        2. enable OOB license
        3. web --> Configuration --> Syslog, should be available for use

7.
    Category: Fixes
    Description:
```

```
        [80761] Some sensor cannot be detected
        [79995] IPMI hardware monitor voltage check fail

    Impact motherboard: X11DPG-Q
    Affected functions:
    Validation :
        1. Check the sensor threshold and status.

8.
    Category: Fixes
    Description:
        [80620] If "Syslog" enabled, unexpected system event logs will be
generated in every 2 minutes

    Impact motherboard:
        All MBs
    Affected functions:
        syslog
    Validation :
        1. Enable DHCPv6
        2. Check syslog event

9.
    Category: Fixes
    Description:
        [80479] [SATA] fan speed fluctuates a lot.

    Impact motherboard: X11DPT-B (with SAS BP)
    Affected functions:
    Validation :
        1. Set the fan mode to full speed.
        2. Check the FAN1/FAN2 reading.

10.
    Category: Fixes
    Description:
        [80674] BMC cannot display the sensor reading under Windows 2012
R2
                when there are 4 P40 on the system

    Impact motherboard: X11DPG-Q
    Affected functions:
    Validation :
        1. Enter the OS.
        2. Check the sensor page.

11.
    Category: Fixes
    Description:
        [80227] IPMI Rev 1.21 could not report Nvme sensor reading.

    Impact motherboard: X11DPT-B+
    Affected functions:
    Validation :
```

```
        1. Check NVMe sensor reading.

12.
    Category: Fixes
    Description:
        [80692] Help information menu missing for "LCMC update" field.

    Impact motherboard: X11DPFR
    Affected functions:
    Validation :
        1. Check LCMC update's help page.

13.
    Category: Fixes
    Description:
        [80873] NTP server shifts after IPMI cold reset ( or AC off/on or
IPMI
                flashing), with IPMi v1.22

    Impact motherboard: All
    Affected functions:
    Validation :
        1. Config primary and secondary NTP server.
        2. Reboot BMC.
        3. Check the primary NTP server should not be shifted to
secondary NTP
            server.

14.
    Category: Fixes
    Description:
        [80926] PSU FAN RPM get difference value between SD5 and Web GUI


    Impact motherboard: All
    Affected functions:
    Validation :
        1. Run power source web gui and check fan1 rpm and fan2 rpm.
        2. Run SMCIPMITOOL pminfo command to get fan1 rpm and fan2 rpm.
        3. The difference should be smaller because BMC has limited
resolutoin
            compared to the application tools.

15.
    Category: Fixes
    Description:
        [80698] Failed to update LCMC firmware via IPMI Web GUI and
SMCIPMITool


    Impact motherboard: All
    Affected functions:
    Validation :
        1. Update LCMC, it should be ok.
```

```
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Filename: SMT_X11AST2500_122.bin version: 1.22 Date: 05-26-2017
U-Boot build time : 2013.01 (Apr 14 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_04_13.xlsx
```

1.
    Category: Fixes
    Description:
        [79968] IPMI hardware monitor voltage check fail.

    Impact motherboard: X11DPG
    Affected functions:
    Validation :
        1. Update FW and remove old SDRs when new FW updating.
        2. Check the sensor threshold.

2.
    Category: Fixes
    Description:
        [79897] NO AOC temperature reading in the IPMI web.

    Impact motherboard: X11QPH
    Affected functions:
    Validation :
        1. Insert AOC-2UR68-m2TS. Please make sure the MLX MT27712A0 FW
is the latest.
        2. Check the MB_NIC_Temp reading.

3.
    Category: Fixes
    Description:
        System installed with 3108 AOC then run cburn ON/OFF test:
            1. Cause system hang at POST stage (and IERR happens)
            2. Some affiliated HDDs within 3108 will be lost(disk drop)

    Impact motherboard:
        All motherboard which support LSI 3108 card.
        MCTP protocol are needed to be supported by the bios.

    Affected functions:
    Validation :
        1. Insert LSI 3108 card
        2. Run cburn ON/OFF test, it will automatically check:
            2-1. System hang at POST stage (and IERR happens)
            2-2. The drives lost or not
            (If you don't know how to run this verification, please
contact Joe Chung(in US))

4.
    Category: Fixes

```
     Description:
         Fine-tune ADC conversion for sensor reading(ADC reworked)

     Impact motherboard: X11SRM
     Affected functions:
     Validation :
         1. Check the sensor reading web gui.

5.
     Category: Fixes
     Description:
         [76583] No Sensor Reading For 10G Lan Card, 40G Lan Card and AOM-
S3108M-H8

     Impact motherboard: X11DDW
     Affected functions:
     Validation :
         1. Check AOC & LSI temp sensors.

6.
     Category: Enhancement
     Description:
         Fix security vulnerability (NTP mode 6 scanner)

     Impact motherboard: All
     Affected functions:
      Validation :
         1. Please do factory default.
         2. Enable NTP in Date and Time page.
         3. Run Nessus. NTP mode 6 scanner issue should not be in test
report.

7.
     Category: Fixes
     Description:
         [80248] After triggered CPU overheat, CPU sensor behavior
abnormal

     Impact motherboard: All
     Affected functions:
     Validation :
         1. Heat up CPU to PROC_HOT level
         2. You won't hear the buzzer beeps randomly
         3. After cooling down, the buzzer should stop

8.
     Category: Fixes
     Description:
         [80273] No PWM Duty for AOC IB Temperature Sensor

     Impact motherboard: X11DPFR
     Affected functions:
     Validation :
         1. Install AOC-MHIBF-m2Q2G
```

2. Do thermal test and check AOC_IB_Temp's PWM duty.

9.
    Category: Fixes
    Description:
        [80383] Frequency of CPU is locked after CPU is throttled

    Impact motherboard: X11DPT-B+
    Affected functions:
    Validation :
        1. Conduct CPU overheat test.
        2. Check if CPU freq is locked or not when the CPU overheat event
occurs.

Filename: SMT_X11AST2500_121.bin version: 1.21 Date: 05-12-2017
U-Boot build time : 2013.01 (Apr 14 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_04_13.xlsx

1.
    Category: Fixes
    Description:
        [78821] There isn't log for CPU throttle, CPU OH, or CPU Thermal
Trip.
        [79004] When CPU thermal trip, system power cycle and stuck at
non-booting state.
        [79008] FP OH LED doesn't work.

    Impact motherboard: X11QPH
    Affected functions:
    Validation :
        1. Make the CPU to Proc_Hot.
        2. Check the OH LED behavior.
        3. Continually heat the CPU to shutdown. (Thermal Trip)
        4. Check Thermal trip SEL.

2.
    Category: Fixes
    Description:
        [79793] Empty assertion events are recorded in IPMI SEL when
SMART error drives are detected.

    Impact motherboard: All
    Affected functions:
    Validation :
        1. Launch Smart HDD event.

3.
    Category: Fixes
    Description:
        [79732] BMC Web cannot get the GPU device.

```
    Impact motherboard: X11DPG
    Affected functions:
    Validation :
        1. Insert GPUs.
        2. Check the sensor reading web gui.

4.
    Category: Fixes
    Description:
        [80027] Change IPMI LAN mode fail.
        [79982] [BIOS 1.0 ECO] SUM ATT test fail.

    Impact motherboard: all
    Affected functions:
    Validation :
        1. Run SUM test.


----------------------------------------------------------------------
---------
Filename: SMT_X11AST2500_120.bin version: 1.20 Date: 05-05-2017
U-Boot build time : 2013.01 (Apr 14 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_04_13.xlsx

1.
    Category: Fixes
    Description:
        System hang during POST with IERR errors when using 3108 AOC

    Impact motherboard: all motherboard which support LSI 3108 card.
                        MCTP protocol are needed to be supported by the
bios.
    Affected functions:
    Validation :
        1. Insert LSI 3108 card.
        2. Do system DC on/off test over 12 hours.
        3. Check if the system hang.

2.
    Category: Features
    Description:
        Support X11QPH motherboard

    Impact motherboard: X11QPH
    Affected functions:
    Validation :


----------------------------------------------------------------------
------------
Filename: SMT_X11AST2500_119.bin version: 1.19 Date: 05-04-2017
U-Boot build time : 2013.01 (Apr 14 2017)
Java SOL Viewer version : v0.5.11
```

Java iKVM Viwer version : v1.69 r35
Redfish API : Redfish_API_full_list_2017_04_13.xlsx

1.
    Category: Fixes
     Description:
         When you select French keyboard layout, there some digits keys
don't work.

     Impact motherboard: all
     Affected functions:
     Validation :
         1. launch java remote console.
         2. select French keyboard layout in option menu
         3. test all keys

2.
    Category: Features
    Description:
        Support Smart Power function.

    Impact motherboard: X11DPT-B
    Affected functions:
    Validation :
        1. Support Smart Power on X11DPT-B.
        2. The power capping rate is 80%.

3.
    Category: Features
    Description:
        Support LCMC CPLD update.

    Impact motherboard: X11DPT-B+ BPN_NVME3_217BHQ
    Affected functions:
    Validation :
        1. Update CPLD through web page.

4.
    Category: Features
    Description:
        79678 [Hybrid] MCU version inconsistency
    Impact motherboard: X11DPT-B+ with BPN-SAS3-217BHQ-N4
    Affected functions:
    Validation :
        1. Check the multinode web gui.
        2. Check the version of Nuvoton MCU FW update web gui.

5.
    Category: Fixes
     Description:
         79066 Fan control function didn't work on FAN5~8

     Impact motherboard: X11SPG-TF
     Affected functions:

Validation :
            1. Check fan speed in sensor page.

    6.
        Category: Fixes
         Description:
            [79051] BMC senor couldn't read VRMCpu temp; and Vbat message was
wrong.

         Impact motherboard: X11DPU-Z+
         Affected functions:
         Validation :
            1. Check ipmi sensors.

    7.
        Category: Fixes
         Description:
            79134 Session ID is abnormal for iKVM User List

         Impact motherboard: all
         Affected functions:
         Validation :
            1. Log in web page.
            2. Use Console Redirection and iKVM/HTML5 to check session id in
user list

    Filename: SMT_X11AST2500_118.bin version: 1.18 Date: 04-20-2017
    U-Boot build time : 2013.01 (Apr 14 2017)
    Java SOL Viewer version : v0.5.11
    Java iKVM Viwer version : v1.69 r34
    Redfish API : Redfish_API_full_list_2017_04_13.xlsx

    1.
        Category: Fixes
         Description:
            [79260] IPMI Web GUI - Power source page is showing the incorrect
value for PWS Serial Number.

         Impact motherboard: X11DPT-B
         Affected functions:
         Validation :
            1. Check the Power source page.
            2. Check the Serial Number of PSU.

    2.
        Category: Fixes
         Description:
            [78773] iKVM is not stable.

         Impact motherboard: all
         Affected functions:
         Validation :
            1. Log in IPMI Web GUI.

2. Open iKVM

    3.
        Category: Fixes
         Description:
            [79258] Several sensors will sometimes show "Not Present" in IPMI
    sensor reading page after
                    performing AC cycle or node hot plug.

         Impact motherboard: X11DPT-B
         Affected functions:
         Validation :
            1. AC Cycle the mode as power up.
            2. Check the Sensor list.

    4.
        Category: Enhancements
         Description:
            [78028] [SUM 2.0.0(2017/03/03)] Test fail.

         Impact motherboard: all
         Affected functions:
         Validation :
            1. Setup oscilloscope to capture the signal.
            2. Enter web GUI and trigger power down.

    5.
        Category: Fixes
         Description:
            [79309] [IPMI ECO 1.17] Redfish function is not workable

         Impact motherboard: all
         Affected functions:
         Validation :
            1. open /redfish/v1 with postman,
               and it should list the available categories

    6.
        Category: Fixes
         Description:
            [79265] [Hybrid] Fans did not change to full speed after fan
    failure.

         Impact motherboard: X11DPT-B
         Affected functions:
         Validation :
            1. Remove FAN1/FAN2, check FAN2/FAN1 is full speed.

    Filename: SMT_X11AST2500_117.bin version: 1.17 Date: 04-14-2017
    U-Boot build time : 2013.01 (Apr 14 2017)
    Java SOL Viewer version : v0.5.11
    Java iKVM Viwer version : v1.69 r34

1.
    Category: Features
     Description:
        Support new MB X11DPH

     Impact motherboard: X11DPH
     Affected functions:
     Validation :
        1. Check X11DPH functions.

2.
    Category: Fixes
     Description:
        [78893] "Out of Spec Definition (0x07, 0x08) - Assertion" events
are recorded in IPMI SEL when installing RHEL7.3

     Impact motherboard: all
     Affected functions:
     Validation :
        1. Install RHEL7.3.
        2. Check the SEL logs.

3.
    Category: Fixes
     Description:
        [79090] DFx: OSE X11DPT-PS R1.10 sample run report.

     Impact motherboard: X11DPT-PS
     Affected functions:
     Validation :
        1. Correct the FAN sensors.
        2. Please do the restore to factory default, and make sure there
are only FAN1/2/3.

4.
    Category: Fixes
     Description:
        [78485] The VBAT sensor reading is incorrect.

     Impact motherboard: X11DPU-Z
     Affected functions:
     Validation :
        1. Implement the new VBAT way as X11DPU.
        2. Make sure VBAT works fine.

5.
     Category: Features
     Description:
        Redfish support new APIs

     Impact motherboard: all
     Affected functions:
     Validation :
        Check out the following storage APIs:

```
        /redfish/v1/Managers/1/VM1/CfgCD (license: OOB, SUM, DCMS,
Configure ISO image settings: host, path, username and password)
        /redfish/v1/Managers/1/VM1/CfgCD/Actions/IsoConfig.Mount
(license: OOB, SUM, DCMSDo mount ISO image)
        /redfish/v1/Managers/1/VM1/CfgCD/Actions/IsoConfig.UnMount
(license: OOB, SUM, DCMSDo unmount ISO image)

        /redfish/v1/Managers/1/IKVM (license: DCMS, get a URL link to
launch an iKVM over HTML5)

        /redfish/v1/UpdateService/SSL (license: OOB, SUM, DCMS, view
current SSL certification information)
        /redfish/v1/UpdateService/SSL/Actions/SSL.Upload (license:
OOB, SUM, DCMS, used to upload new SSL certification file)

        /redfish/v1/Systems/1/Storage (license: DCMS)
        /redfish/v1/Systems/1/Storage/HA-RAID (license: DCMS, For
Broadcom 3108)
        /redfish/v1/Systems/1/Storage/HA-RAID/HA-
RAID.[contoller_num].Volumes (license: DCMS, For Broadcom 3108)
        /redfish/v1/Systems/1/Storage/HA-RAID/HA-
RAID.[contoller_num].Volumes/[volume_num] (license: DCMS, For Broadcom
3108)
        /redfish/v1/Systems/1/Storage/RAIDIntegrated (license: DCMS,
For RSTe, Must have TAS running)
        /redfish/v1/Systems/1/Storage/RAIDIntegrated/Volumes (license:
DCMS, For RSTe, Must have TAS running)

/redfish/v1/Systems/1/Storage/RAIDIntegrated/Volumes/[volume_num]
(license: DCMS, For RSTe, Must have TAS running)
        /redfish/v1/Systems/1/Storage/SATAEmbedded (license: DCMS, For
PCH SATA, Must have TAS running)
        /redfish/v1/Systems/1/Storage/SATAEmbedded/Volumes (license:
DCMS, For PCH SATA, Must have TAS running)

/redfish/v1/Systems/1/Storage/SATAEmbedded/Volumes/[volume_num] (license:
DCMS, For PCH SATA, Must have TAS running)

        /redfish/v1/Chassis/HA-
RAID.[contoller_num].StorageEnclosure.[enclosure_num] (license: DCMS, For
Broadcom 3108)
        /redfish/v1/Chassis/HA-
RAID.[contoller_num].StorageEnclosure.[enclosure_num]/Drives/Disk.Bay.[di
sk_num] (license: DCMS, For Broadcom 3108)
        /redfish/v1/Chassis/StorageBackplane (license: DCMS, For PCH
SATA or RSTe, Must have TAS running)

/redfish/v1/Chassis/StorageBackplane/Drives/Disk.Bay.[disk_num] (license:
DCMS, For PCH SATA or RSTe, Must have TAS running)

/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].Stora
geBackplane.[pcie_controller_num] (license: DCMS, For NVMe)

/redfish/v1/Chassis/NVMeSSD.[pcie_controller_num].Group.[group_num].Stora
```

geBackplane.[pcie_controller_num]/Drives/Disk.Bay.[disk_num] (license:
DCMS, For NVMe)

6.
    Category: Features
    Description:
        Support Smart Power function.

    Impact motherboard: X11DPU
    Affected functions:
    Validation :
        1. Support Smart Power on X11DPU.
        2. The power capping rate is 80%. (750W x 0.8 = 600W)

7.
   category: Fixes
    description:
        [79130] gpu temperature sensor reading is not available
        [78977] pcie 10g aoc no sensor reading
    impact motherboard: x11dpg-q
    affected functions:
    validation :
        1. plug in gpu and 10g cards.
        2. power on and check sensors.

8.
    Category: Enhancements
    Description:
        [78985] Some MBs/nodes will take 10+ minutes to boot to PXE after
AC cycle.
        It's a workaround for solving an issue that sometimes BIOS might
have KCS long-waiting issue.

    Impact motherboard: all
    Affected functions:
    Validation :
        1. AC off.
        2. AC on and check system boot time.

9.
    Category: Fixes
    Description:
        Fine-tune ADC conversion for sensor reading:
        [778836] '5VSB - Lower Critical going low - assertion' messages
are being recorded in IPMI SEL

    Impact motherboard: X11DPT-B+
    Affected functions:
    Validation :
        Make sure 5VSB no abnormality in the system event log.

10.
    Category: Fixes
    Description:

Fine-tune ADC conversion for sensor reading.
        [79104]IPMI event log showing 3.3VCC and 12V upper critical
reached events

     Impact motherboard: X11DPT-B+
     Affected functions:
     Validation :
        Make sure 3.3VCC and 12V no abnormality in the system event log.

11.
     Category: Fixes
     Description:
        [78928] [Hybrid] Changing FAN mode to full speed does not work
when making the changes on nodes B, C, or D.

     Impact motherboard: X11DPT-B+
     Affected functions:
     Validation :
        1. Change the FAN mode to full speed mode of Node C or D.
        2. Check the FAN sensor RPM.

Filename: SMT_X11AST2500_116.bin version: 1.16 Date: 03-31-2017
U-Boot build time : 2013.01 (Mar 16 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34
1.
   Category: Features
    Description:
        [78420] IPMI Web Session value didn't load default after IPMI
Load Factory Default

     Impact motherboard: all
     Affected functions:
     Validation :
        1. Change web session timeout values.
        2. Do factory default.
        3. Check the value again.

2.
   Category: Fixes
    Description:
        [78491] No NVMe and MB_NIC Temperature Reading on IPMI version
1.15
        [78486] IPMI FW 1.15 can't see NVMe SSD tab anymore under IPMI
webgui.

     Impact motherboard: all
     Affected functions:
     Validation :
        1. Check the sensor page
        2. ULIO related NVMe and NIC Temp should be displayed.

3.
   Category: Fixes
   Description:
      [78410] Fan RPM fluctuates for the NIC devices

   Impact motherboard: all
   Affected functions:
   Validation :
      1. Use SMCIPMITool to check the duty cycle of fans
      2. heat the NIC separately and the duty cycle of fans should not
      fluctuate violently

4.
   Category: Features
   Description:
      [78658] NVidia P40 doesn't show up sensor reading in IPMI WebGUI

   Impact motherboard: all motherboards which support GPU sensors
   Affected functions:
   Validation :
      1. Check the P40 GPU sensor reading on IPMI web gui.

5.
   Category: Fixes
   Description:
      [77374] IPMI SEL gets lot of "Others - Assertion" messages

   Impact motherboard: all motherboards which support NVMe sensors
   Affected functions:
   Validation :
      1.Plug in NVMe drives.
      2.Wait NVMe drive show up on IPMI web gui.
      3.Try to insert/remove NVMe drives.
      4.Check the event logs.

6.
   Category: Enhancements
   Description:
      CVE-2003-0001

   Impact motherboard: all
   Affected functions:
   Validation :
      1. Scan security vulnerability by Nessus.
      2. CVE-2003-0001 should not be listed in report.

7.
   Category: Fixes
   Description:
      [78333] ipmicfg -conf & -k &nm seltime fail.

   Impact motherboard: all Purley platforms.
   Affected functions:
   Validation :

```
        1. Use new ipmicfg LINUX version. (> 1.2.7)
        2. Try LAN config commands.
        3. Try config download commands.
        4. Try nm20 commands.


8.
   Category: Fixes
    Description:
        [78779] SD card function is fail

    Impact motherboard: all Purley platforms.
    Affected functions:
    Validation :
        1. use the following command to check the SD card plug state.
           # ipmitool -H <IP> -U ADMIN -P ADMIN raw 0x30 0x70 0x80
           return 00: SD card is inserted.
                  01: SD card is not inserted.
        2. use the following command to test the SD card upload and
download.
           # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfileupload 12 <UploadFile>
           # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfiledownload 18 <DownloadFile>


9.
   Category: Fixes
    Description:
        [77869] No storage temperature sensor reading in IPMI for BPN-
ADP-8S3108-1UF in slot JSXB2.
    Impact motherboard: X11DPFR-SN
    Affected functions:
    Validation :
        1. Check ipmi sensor.


10.
   Category: Fixes
    Description:
        [77636] No AOC temperature readings for several SIOM/Standard
AOCs
    Impact motherboard: X11DPFR-SN
    Affected functions:
    Validation :
        1. Check ipmi sensor.


11.
   Category: Features
    Description:
        Support new MB X11SPG-TF
    Impact motherboard: X11SPG-TF
    Affected functions:
    Validation :
        1. support X11SPG-TF
```

```
------------------------------------------------------------------------
----------
Filename: SMT_X11AST2500_115.bin version: 1.15 Date: 03-17-2017
U-Boot build time : 2013.01 (Mar 16 2017)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34

1.
   Category: Features
    Description:
         [77440] Sensor reading issue

    Impact motherboard: X11DPG-QT
    Affected functions:
    Validation :
         1. Check JVRM jumper should be shorted at pin 1-2.
         2. Check VRM sensors.

2.
   Category: Fixes
    Description:
         [77673] There are other error event logs when generate memory
UECC by Intel MEI

    Impact motherboard: X11SPH
    Affected functions:
    Validation :
         1. Try to generate memory UECC by Intel MEI.
         2. Check event log on web gui and it should support definite
wordings.

3.
   Category: Fixes
    Description:
         [77149] Some sensor readings show as "Not Present".

    Impact motherboard: X11SPH-NCTPF
    Affected functions:
    Validation :
         1. Update BMC FW and uncheck Preserve SDR option.
         2. "MB_10G Temp" sensor is not shown on X11SPH-NCTPF motherboard.

4.
   Category: Features
    Description:
         [78123] No AOC temperature reading on R1.10 with X11DPU

    Impact motherboard: All motherboards which has AOC-2UR68-M2TS
    Affected functions:
    Validation :
         1. Put the AOC-2UR68-M2TS onto SXB3.
         2. Power cycle the system and wait to boot into OS.
         3. Check the MB_NIC_Temp1 reading.
```

5.
   Category: Fixes
    Description:
         [78205] FAN A&B won't change speed when PCH temperature
increasing in Heavy IO mode.
         [78204]   Normal   Open   FAN A&B speed is not correct in
Standard mode.
         [78203]   Normal   Open   FAN A & B cannot be full speed in
full mode.
         [78201]   Normal   Open   no Optimal mode in this model.

    Impact motherboard: X11SPL-F
    Affected functions:
    Validation :
         1. Check FANA and FANB in sensor page and fan mode.

6.
   Category: Fixes
    Description:
         [78071] No have NVMe message on IPMI web

    Impact motherboard: X11SPL-F
    Affected functions:
    Validation :
         1. Check NVME temperature in sensor page.

Filename: SMT_X11DP_114.bin version: 1.14 Date: 03-03-2017
U-Boot build time : 2013.01 (Dec 29 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34

1.
   Category: Fix
    Description:
         [77549] FANA and FAN B function can't work on web IPMI

    Impact motherboard: X11SPL-F
    Affected functions:
    Validation :
         1. Check FANA and FANB.

2.
   Category: Fix
    Description:
         [77573] BMC does not see fans.

    Impact motherboard: X11DPT-B and BPN-SAS3-217BHQ-N4
    Affected functions:
    Validation :
         1. Support BPN-SAS3-217BHQ-N4 Fan reading and Fan control.
         2. Check the FAN1 and FAN2 reading after system booting to OS.

3.
   Category: Fix
    Description:
        [77272] VBAT Sensor reading is not stable.

    Impact motherboard: All
    Affected functions:
    Validation :
        1. Remove the VBAT.
        2. Check the VBAT sensor status and TopMenu System Status.

4.
   Category: Fix
    Description:
        [77953] [Hybrid] EC firmware version shows the wrong version on
the EC Nuvoton Update Page.

    Impact motherboard: X11DPT-B
    Affected functions:
    Validation :
        1. Check the Nuvoton page, the version should meet the EC
version.

5.
   Category: New Feature
    Description:
        New test function for JSDCARD.
        [76149]] Function Fail, SD card cannot detect.

    Impact motherboard: X11DP motherboards with JSDCARD.
    Affected functions:
    Validation :
        1. use the following command to check the SD card plug state.
           # ipmitool -H <IP> -U ADMIN -P ADMIN raw 0x30 0x70 0x80
           return 00: SD card is inserted.
                   01: SD card is not inserted.
        2. use the following command to test the SD card upload and
download.
           # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfileupload 12 <UploadFile>
           # java -jar SMCIPMITool.jar <IP> ADMIN ADMIN ipmi oem
generalfiledownload 18 <DownloadFile>

6.
   Category: Fix
    Description:
        [77832] [Hybrid] No M.2 AOC temperature sensor reading is shown
in IPMI.

    Impact motherboard: X11DPT-B
    Affected functions:
    Validation :
        1. Please do the restore to factory default.

2. If the system has BPN-ADP-2M2-1UB card, the BPN_M2_Temp sensor
should have reading.
        3. If not, BPN_M2_Temp would be Not Present.

7.
    Category: Fix
     Description:
        [77812] During FAN Fail, Sensor Reading Section on WebGUI Will
Show Lower Critical instead of Lower Non-Recoverable

     Impact motherboard: X11DP all platforms.
     Affected functions:
     Validation :
        1. FAN status must show "Lower Non-recoverable" when FAN failed.

Filename: SMT_X11DP_113.bin version: 1.13 Date: 02-18-2017
U-Boot build time : 2013.01 (Dec 29 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34

1.
    Category: Enhancement
     Description:
        A new way for battery sensor presence. (Removing old SDR is
required)
     Impact motherboard: All X11DP platforms.
     Affected functions: Change VBAT sensor type from ipmi voltage sensor
to ipmi battery sensor.
     Validation :
        1. Remove the old SDR by oem command or do not preserve SDR
during firmware update.
        2. The sensor status shows "Battery presence detected" if the
battery voltage > 2.7V.
        3. The sensor status shows "Battery low" if the battery voltage
is between 2.5V and 2.7V.
        4. The sensor status shows "Battery failed" if the battery
voltage is below 2.5V.

2.
    Category: Fix
     Description:
        [77543] NO MB_NIC_Temp in IPMI Web GUI.
     Impact motherboard: X11DDW-L
     Affected functions:
     Validation :
        1. Please make sure your BPN of FRU1 was written correctly
before.
        2. If not, please SMCIPMITool <IP> ADMIN ADMIN ipmi fru1w BPN
X11DDW-L <PASSWD>
        3. After step 2, please help to issue raw 0x30 0x41 to get
correct SDR file.

4. Check sensors, this motherboard should not have MB_NIC_Temp
sensor.

3.
    Category: Fix
     Description:
          [77479] PCI-E I2C Functionality test fail
     Impact motherboard: X11SPH-NCTPF
     Affected functions:
     Validation :
          1. Insert AOC card with the latest bios.
          2. Check the sensor.

4.
    Category: Fix
     Description:
          [77189] JL1 chassis intrusion funciton fail
     Impact motherboard: H11DSU-IN+-P
     Affected functions:
     Validation :
          1. Motherboard needs hardware modifications.
          2. Make sure the behavior of chassis intrusion is normal.
          3. The status can be reset.

5.
    Category: Fix
     Description:
          [77564] FAN moded isn't accuracy
     Impact motherboard: H11DSI-NT-P
     Affected functions:
     Validation :
          1. Check the "Fan Mode" from web gui.

6.
    Category: Fix
     Description:
          [77486] IPMI sensor readings are test fail
     Impact motherboard: H11DSU-iN+
     Affected functions:
     Validation :
          1. Check the value of the voltage sensor.

7.
    Category: Fix
     Description:
          [76782] Fan Control Function is not workable
     Impact motherboard: H11DSI-NT-P
     Affected functions:
     Validation :
          1. Confirm the fan mode with its status.

8.
    Category: Fix
     Description:

```
              [77523] IPMI report node power consumption too high (high
current)
      Impact motherboard: X11DPT-PS
      Affected functions:
      Validation :
          1. Confirm the multi node page.
          2. Check the power consumption value is reasonable.

9.
    Category: Fix
     Description:
            [76777] IPMI sensor reading fail.
      Impact motherboard: H11DSI-NT-P
      Affected functions:
      Validation :
          1. Confirm the Sensor Readings page.

10.
    Category: Fix
     Description:
            [77537] Cannot update LCMC fw
      Impact motherboard: X11DPT-B+
      Affected functions:
      Validation :
          1. Confirm EC update web gui shows up when using BPN-SAS3-217BHQ-
N4

11.
    category: Fix
     description:
            [74526] No AOC card sensor reading in IPMI Web

     impact motherboard: X11SPW-CTF
     affected functions:
     validation :
          1. Check AOC sensor reading in web gui.

12.
    category: Fix
     description:
            [77655] BIOS and IPMI memory slot discrepency.

     impact motherboard: All
     affected functions:
     validation :
          1. Issue this command:
             ipmitool -H <IP> -U ADMIN -P ADMIN raw 0x4 0x2 0x4 0xcc 0x0
0x6f 0x31 0xff 0x29
          2. Make sure the DIMM location is P2-DIMMC2.

-------------------------------------------------------------------------
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Filename: SMT_X11DP_112.bin version: 1.12 Date: 02-10-2017
U-Boot build time : 2013.01 (Dec 29 2016)
```

```
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34

1.
   Category: Fix
    Description:
         [76200] No NVMe SSD tab under IPMI web GUI
    Impact motherboard: X11DPT-B+
    Affected functions:
    Validation :
        1. Check NVMe web gui and NVMe sensor tempeature reading are
present.

2.
   Category: Fix
    Description:
         [77149] Some sensor readings show as "Not Present"
    Impact motherboard: X11SPH
    Affected functions:
    Validation :
        1. Check sensor reading web gui.

3.
   Category: Fix
    Description:
         [77403] FP LED frequency fail
    Impact motherboard: X11SPH
    Affected functions:
    Validation :
        1. Do power failed test and check FP LED status if blinking.

4.
   Category: New Motherboards
    Description:
         Support X11DPU-Z
         Support X11DAI-N
         Support X11SPL_F
         Support X11DRFR_SN
    Impact motherboard: X11DPU-Z, X11DAI-N, X11SPL_F and X11DRFR_SN.
    Affected functions:
    Validation :

5.
   Category: Fix
    Description:
         [76949] No NVMe_SSD Temp and NVMe SSD tab in IPMI Web GUI
    Impact motherboard: X11DDW
    Affected functions:
    Validation :
        1. Check NVMe temp in IPMI sensor.

6.
   Category: Fix
    Description:
```

```
        [77406] FAN mode didn't Heavy I/O mode
     Impact motherboard: H11DSI
     Affected functions:
     Validation :
         1. Check Fan Mode web gui.


7.
    Category: Fix
     Description:
         [77290] [NVMe VMD and Non-VMD mode] NVMe device can't detected
on
         backplane NVMe #1 #2 #3 port
     Impact motherboard: X11SPi
     Affected functions:
     Validation :
         1. Check NVMe device shows on web gui.
         2. Check the indicate LED can be indicated.
         3. All ssd devices can be seen in OS.


----------------------------------------------------------------------
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Filename: SMT_X11DP_111.bin version: 1.11 Date: 01-26-2017
U-Boot build time : 2013.01 (Dec 29 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r34


1.
    Category: Fix
     Description:
         [76997] IPMI reading fail.
     Impact motherboard: X11SPM-F
     Affected functions:
     Validation :
         1. Check 12v sensor reading if normal at web page


2.
    Category: Fix
     Description:
         [77019] Smcipmitool pminfo command does not work.
         [77018] No Power supply reading under Power Source tab under
IPMI webgui.
     Impact motherboard: X11DPi / X11DPi-T
     Affected functions:
     Validation :
         1. check power status via IPMI web or SMCIPMITool.


3.
    Category: PSU Workaround
     Description:
         [76401] The watt value of Power Meter can't meet the watt value
of the platform policy.

     Impact motherboard: X11DPU
     Affected functions:
```

```
     Validation :
          1. Set power policy and check the capping result.

   4.
       Category: Fix
        Description:
             [77187] IPMI Hardware Information page no any information
        Impact motherboard: X11SPM-F
        Affected functions:
        Validation :
             1. Check BMC web page.

   5.
       Category: Fix
        Description:
             [77220] Multi Node Monitoring page all information is N/A
        Impact motherboard: X11SPM-F
        Affected functions:
        Validation :
             1. Check BMC web page, there should not display "Multi Node
Monitoring" page.

   6.
       Category: Fix
        Description:
             [77215] IPMI Web no Power Source, Power Consumption page
        Impact motherboard: X11SPM-F
        Affected functions:
        Validation :
             1. Check BMC web page.

   7.
       Category: Fix
        Description:
             [76997] IPMI reading fail
        Impact motherboard: X11SPM-F
        Affected functions:
        Validation :
             1. Check BMC sensor page.


   -------------------------------------------------------------------------
   ----------
   Filename: SMT_X11DP_110.bin version: 1.10 Date: 01-19-2017
   U-Boot build time : 2013.01 (Dec 29 2016)
   Java SOL Viewer version : v0.5.11
   Java iKVM Viwer version : v1.69 r34

   1.
       Category: Fix
        Description:
             [76265] [NVMe] Multinode page - Output current is incorrect
         Impact motherboard: X11DPT-B+
         Affected functions:
```

```
        Validation :
            1. Check output current if normal on multinode web page

2.
    Category: Fix
     Description:
            [76376] AOC Temp not shown
     Impact motherboard: X11DPT-B+
     Affected functions:
     Validation :
            1. Check the sensor status with the latest bios

3.
    Category: Fix
     Description:
            [76707] SEL Time Stamp and NTP Tim-Zone function failed.
     Impact motherboard: X11DPT-B+
     Affected functions:
     Validation :
            1. Check NTP Time-Zone when NTP service is enabled.

4.
    Category: Fix
     Description:
            [75962] IPMI session timed out even when KVM console redirection
was opened and kept on doing same thing until I did AC cycle.
     Impact motherboard: X11DPi / X11DPi-T
     Affected functions:
     Validation :
            1. Open IKVM viewer and check if web session could time out
suddenly.

5.
    Category: Fix
     Description:
            [75652] Web IPMI can't see NVMe device management function .
     Impact motherboard: X11SPi
     Affected functions:
     Validation :
            1. Open web and check if NVMe device management page shows.

6.
    Category: Fix
     Description:
            [76585] DIMM label in BMC doesn't match MB silkscreen
     Impact motherboard: All X11DP projects.
     Affected functions:
     Validation :
            1. Update FW v1.10 without SDR preservation.
            2. Check if sensor name match MB silkscreen.

7.
    Category: Fix
     Description:
```

[76112] No Power Status in Sensor Readings and Power Source with
IPMI 0.29
      Impact motherboard: X11DDW
      Affected functions:
      Validation :
         1. Check power status in IPMI sensor.

8.
    Category: Fix
     Description:
         [76936] System power status always show "ON" in IPMI.
         [76935] Cannot use IPMI to power on the system.
         [76934] Cannot use IPMI to power off system.

      Impact motherboard: H11DSU
      Affected functions:
      Validation :
         1. Power on/off the system.
         2. Check the power status.

Filename: SMT_X11DP_029.bin version: 0.29 Date: 01-05-2017
U-Boot build time : 2013.01 (Dec 29 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r33

1.
    Category: Fix
     Description:
         [75293] VLAN tag function of IPMI does not work.
     Impact motherboard: All X11DP projects.
     Affected functions:
     Validation :
         1. Check BMC's network ability in VLAN.
2.
    Category: Fix
     Description:
         [76516] Detect only CPU 1 memory in IPMI.
     Impact motherboard: X11DDW
     Affected functions:
     Validation :
         1. Update IPMI firmware without SDR preservation.
         2. Check IPMI sensor page.

3.
    Category: Workaround
     Description:
         [76012] SMCIPMITool bios ver command cause system reset
     Impact motherboard: X11DPi / X11DPi-T
     Affected functions:
     Validation :
         1. Check bios ver command in SMCIPMITool.
         2. System should not reboot.

3. It's a temporarily workaround for X11DPi only and will be
removed in MB's next revision which will preserve a dedicated SPI for
BMC.

Filename: SMT_X11DP_028.bin version: 0.28 Date: 12-28-2016
U-Boot build time : 2013.01 (Nov 25 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r33

1.
    Category: New Motherboard
     Description:
        Support motherboard X11SPH, X11DPG-Q
     Impact motherboard: X11SPH, X11DPG-Q
     Affected functions:
     Validation :

2.
    category: Fix
     description:
        [76159] [EVT] Chassis Intrusion sensor shall be hidden
        [76120] [EVT] Extra FAN sensors were displayed, but platform only
have 4 FAN ports designed
        [76069] [EVT] Vbat sensor error

     impact motherboard: X11DPT-B+
     affected functions:
     validation :
        1. Check sensor reading web gui.

3.
    category: Fix
     description:
        [74526] No AOC card sensor reading in IPMI Web

     impact motherboard: X11SPW-CTF
     affected functions:
     validation :
        1. Check AOC sensor reading in web gui.

4.
    category: Fix
     description:
        [76261] IPMI Sensor Readings issue

     impact motherboard: X11SPM-F
     affected functions:
     validation :
        1. Check FAN6 and VRM sensor reading in web gui.

5.
    category: Fix

```
     description:
         [76262] Fan failed LED can't work on FAN6 port

     impact motherboard: X11SPM-F
     affected functions:
     validation :
         1. Check FAN6 fan fail led.

6.
   category: Intel Workaround
    description:
         [75256] [SPM] Couldn't get value of power supply.

     impact motherboard: X11DPU+
     affected functions:
     validation :
         1. Power cycle the system.
         2. Wait the system booting to OS.
         3. Issue smcipmitool nm20 statistic 1 0 0 command.

7.
   category: Fix
    description:
         [76114] IPMI lost all sensor readings with IPMI FW 00.27 & BIOS
12-16.

     impact motherboard: X11DPi / X11DPi-T
     affected functions:
     validation :
         1. AC off the system.
         2. Install AOC-SGP-i4.
         3. AC on the system and check if IPMI sensors can show up.
         4. Just a reminder that this AOC card does not support
temperature sensor.

8.
   Category: New Motherboard
    Description:
         Support motherboard H11DSI
    Impact motherboard: H11DSI
    Affected functions:
    Validation :

9.
   category: Fix
    description:
         [75687] Web IPMI can't see NVMe device management function
         [74945] IPMI sensor readings can't read NvME SSD temperature.

     impact motherboard: X11SPW-CTF
     affected functions:
     validation :
         1. Check sensor reading in web gui.
```


Filename: SMT_X11DP_027.bin version: 0.27 Date: 12-16-2016
U-Boot build time : 2013.01 (Nov 25 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r33

1.
    Category: Enhancement
     Description:
        Add power status check before doing BIOS update. IPMI WEB will
redirect users to power control page if system is still on.
        [75965] OOB BIOS update reboot system 3 times.
        [74356] [IPMI/BIOS] Failed to upgrade BIOS with IPMI Web GUI.
     Impact motherboard: X11DPI
     Affected functions:
     Validation :
        1. Contact HW designer to rework GPION6 so that BMC firmware can
utilize ME's MFR mode to flash BIOS&ME.
        2. Make sure IPMI can identify MB correctly. (E.g. check IPMI
sensor reading)
        3. If a power status warning pops up, please turn off your
system.
        4. Do BIOS update.
        5. Reboot system.

2.
    Category: New Motherboard
     Description:
        Support motherboard X11DPT-B+
     Impact motherboard: X11DPT-B+
     Affected functions:
     Validation :

3.
    category: fix
     description:
        [75611] MAC will be changed to after BIOS/IPMI updated and show
ff:ff:ff:ff:ff:ff incorrect value on IPMIweb
     impact motherboard: x11spi
     affected functions:
     validation :
        1. update bios from IPMI web GUI.
        2. after update finish, check the share LAN MAC from system page.

Filename: SMT_X11DP_026.bin version: 0.26 Date: 12-06-2016
U-Boot build time : 2013.01 (Nov 25 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r33

1.
    Category: Fix

Description:
          [75023] Fan PWM fail.
       Impact motherboard: X11DPU+
       Affected functions:
       Validation :
          1. Reset the system.
          2. Check the PWM0 and PWM1 are 50% or not.

2.
    category: fix
     description:
          [75669] there is no nvme tab under ipmi webgui for nvmes.
     impact motherboard: x11dpi / x11dpi-t
     affected functions:
     validation :
          1. check nvme tab.

3.
    Category: Workaround
     Description:
          [75381] CPU power consumption and frequency is very unstable
after power policy is triggered.
     Impact motherboard: X11DPI / X11DPI-T
     Affected functions:
     Validation :
          1. Check PSU reading. We have speeded up query frequency.

4.
    Category: Workaround
     Description:
          [74683] Can't flash BIOS using IPMI webgui.
          [74356] [IPMI/BIOS] Failed to upgrade BIOS with IPMI Web GUI
     Impact motherboard: X11DPI / X11DPI-T
     Affected functions:
     Validation :
          1. Contact HW designer to rework GPION6 so that BMC firmware can
utilize ME's MFR mode to flash BIOS&ME.
          2. Make sure IPMI can identify MB correctly. (E.g. check IPMI
sensor reading)
          3. Power off the system before BIOS update. It's a system
limitation on this MB since we do not support BIOS update during system
on.
          4. Do BIOS update.
          5. Reboot system.

5.
    Category: Workaround
     Description:
          Workaround for Intel 10G series shared LAN NIC issues.
          [75601] The local IPMI IP address can not be pinged by shared LAN
1.
          [74776] IPMI Power Control cause IPMI disconnection.
          [73413] System X11DPI-T failed IPMI on/off after 282 cycles.
     Impact motherboard: X11DPI / X11DPI-T

```
     Affected functions:
     Validation :
          1. Switch BMC to shared LAN mode.
          2. ping BMC IP.
          3. Remote system power off via IPMI.
          4. ping BMC IP again.


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Filename: SMT_X11DP_025.bin version: 0.25 Date: 11-25-2016
U-Boot build time : 2013.01 (Nov 25 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r32

1.
     Category: Fix
      Description:
          [75412] NO Onboard 10/40Gb LAN shows on the IPMI Sensor readings.
      Impact motherboard: X11DPI
      Affected functions:
      Validation :
          1. Check IPMI sensor.

2.
     Category: Fix
      Description:
          [75159] IPMIView cannot flash IPMI firmware.
      Impact motherboard: All X11DP platforms.
      Affected functions:
      Validation :
          1. Waiting for new IPMIView release to support X11DP IPMI
Firmware update.

3.
     Category: Fix
      Description:
          [75157] SMCIPMITool cannot flash IPMI firmware
      Impact motherboard: All X11DP platforms.
      Affected functions:
      Validation :
          1. Waiting for new SMCIPMITool release to support X11DP IPMI
Firmware update.

4.
     Category: Fix
      Description:
          [73002] No add-on card sensor reading in IPMI Web
      Impact motherboard: All X11DP platforms.
      Affected functions:
      Validation :
          1. Insert riser card and add-on card
          2. AC on and enter sensor page
          3. Check sensors for riser card and add-on card
```

5.
   Category: Fix
    Description:
      [73132] IPMI [Help] message description no follow guideline rule
    Impact motherboard: All X11DP platforms.
    Affected functions:
    Validation :
      1. AC on and click help message
      2. Check for each sub item, the description should start with 'This
      page ...'

6.
   Category: Fix
    Description:
      [73319] Some sensor sometimes cannot be detected and show "N/A"
    Impact motherboard: X11DPU+
    Affected functions:
    Validation :
      1. AC on and enter sensor page
      2. VBAT voltage should be correct

7.
   Category: Fix
    Description:
      [75023] Fan PWM fail
    Impact motherboard: X11DPU+
    Affected functions:
    Validation :
      1. AC on and enter sensor page
      2. Under optimal/heavy_IO fan mode, heat up one CPU should not affect
      the fan speed of the other zone

Filename: SMT_X11DP_024.bin version: 0.24 Date: 11-11-2016
U-Boot build time : 2013.01 (Oct 20 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r32

1.
   Category: Fix
    Description:
      Suppoty NVMe feature.
    Impact motherboard: X11DPU+, X11DPU-X, X11DPU-XLL
    Affected functions:
    Validation :
      1. Check the web, it should have NVMe SSD page.

2.
   Category: New Motherboard
    Description:
      Support H11DSU motherboard

Impact motherboard: H11DSU
       Affected functions:
       Validation :

3.
    Category: Enhancement
     Description:
         [74941] IPMI Power Control page ACPI State cannot sync up update
when power control by iKVM.
     Impact motherboard: All X11DP platforms.
     Affected functions:
     Validation :
         1. Check power control page.

4.
    Category: Fix
     Description:
         [74817] IPMI webgui does not show HTML under Remote Control tab.
     Impact motherboard: All X11DP platforms.
     Affected functions:
     Validation :
         1. Check if iKVM/HTML5 tab is present in Remote Control Category.

5.
    Category: Fix
     Description:
         [75023] Fan PWM fail
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
         1. Check FAN Mode options.

6.
    Category: Fix
     Description:
         [75066] Node Management not support
     Impact motherboard: X11DRT-PS
     Affected functions:
     Validation :
         1. Issue the following commmand and the NM result should be
displayed.
           .\SMCIPMITool.exe {BMC_IP} ADMIN ADMIN nm20 statistics 1 0 0

Filename: SMT_X11DP_023.bin version: 0.23 Date: 10-28-2016
U-Boot build time : 2013.01 (Oct 20 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r31

1.
    Category: Fix
     Description:

[74638] DIMMs names do not match under IPMI Sensor readings to mb
Silkscreen.
    Impact motherboard: X11DPI 1.02
    Affected functions:
    Validation :
        1. Check DIMM temperature sensors.

2.
    Category: Fix
     Description:
        [74759] Single cooling zone should not have optimal fan mode
     Impact motherboard: X11SPW-CTF
     Affected functions:
     Validation :
        1. Check Fan mode.

3.
    Category: Fix
     Description:
        [74384] IPMI H/W monitor test fail.
     Impact motherboard: X11SPW-CTF
     Affected functions:
     Validation :
        1. Check VCPU and VDIMM in sensor page.

4.
    Category: Fix
     Description:
        [74022] [IPMI]Wrong sensor reading for PCH and Vmem Temp
     Impact motherboard: X11DPT-PS
     Affected functions:
     Validation :
        1. Check VCPU and VDIMM in sensor page.

5.
    Category: Fix
     Description:
        [73319] Some sensor sometimes cannot be detected and show "N/A"
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
        1. Open sensor page and check vrm sensor.

6.
    Category: Fix
     Description:
        [71549] Can't trigger CPU thermal trip
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
        1. Open event page and trigger thermal trip
        2. Check the event order between throttling & thermal trip

```
------------------------------------------------------------------------
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Filename: SMT_X11DP_022.bin version: 0.22 Date: 10-14-2016
U-Boot build time : 2013.01 (Sep 23 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r31


1.
    Category: Fix
     Description:
         [74172] [IPMI]Failover function don't work well
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
         1. Make sure dedicated and shared LAN are plugged with LAN cable.
         2. Web GUI can be accessed from dedicate LAN.
         3. Change the LAN type to shared LAN.
         4. Check the Web GUI, it shoudl be functional from shared LAN.


2.
    Category: Fix
     Description:
         [74026] [IPMI]DHCP function not work well
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
         1. BMC ip setting is from DHCP by default.
         2. The lan connected to 172.16.x.x network.
         3. Replug the LAN cable to 172.31.x.x network.
         4. Use "ipmitool lan print". The bmc ip should become 172.31.x.x.


3.
    Category: Fix
     Description:
         [73599] No Add-on card sensor reading in IPMI Web
     Impact motherboard: X11SPi
     Affected functions:
     Validation :
         1. The installed AOC card temp should be seen in sensor reading
page.


4.
    Category: Fix
     Description:
         [73704] No sensor item in IPMI Sensor page
     Impact motherboard: X11SPW
     Affected functions:
     Validation :
         1. Open sensor page and check vrm sensor.


5.
    Category: Fix
     Description:
         [74274] IPMI Memory sensor name is not meet silkscreen
```

```
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
         1. Open sensor page and check DIMM name.


6.
    Category: Fix
     Description:
         [71637] IPMI LAN LED is incorrect.
     Impact motherboard: All X11 Purley-based platforms.
     Affected functions:
     Validation :
         1. Check Dedicated LAN link LED. (Amber: 1G, Green: 100M)


7.
    Category: Fix
     Description:
         [74356] [IPMI/BIOS] Failed to upgrade BIOS with IPMI Web GUI.
     Impact motherboard: X11DPi Rev 1.02
     Affected functions:
     Validation :
         1. Try BIOS update. (MB has to run ESPI-flash-write enabled BIOS
version before verifying this bug)
         2. Due to ESPI hardware limitation, the entire update process
could be slower than other platforms if you want to preserve NVRAM.

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Filename: SMT_X11DP_021.bin version: 0.21 Date: 09-30-2016

U-Boot build time : 2013.01 (Sep 23 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r31


1.
    Category: Fix
     Description:
         Chassis intrusion sensor N/A issue on some specific platforms.
         [72917] IPMI sensor readings are incorrect.
     Impact motherboard: X11DPi Rev1.02 / X11SPi
     Affected functions:
     Validation :
         1. Check chassis intrusion sensor.


2.
    Category: Fix
     Description:
         [73762] BMC somtimes will crash after AC cycle.
     Impact motherboard: All X11DP
     Affected functions:
     Validation :


3.
    Category: Fix
```

Description:
            [73112] X11DPI-T Rev 1.02 couldn't boot up after 28 cycles of AC
on/OFF with Dedicated Lan.
        Impact motherboard: X11DPi Rev1.02
        Affected functions:
        Validation :
            1. Run AC on/off test and check if BMC heartbeat is still
blinking.

4.
    Category: Fix
     Description:
            [73137] No Memory Temp item in IPMI Sensor Reading page
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
            1. Enter Sensor Readings page.
            1. The DIMM SDR should be present.

5.
    Category: Fix
     Description:
            [73865] IPMI FAN detection is fail
     Impact motherboard: X11SPW-CTF
     Affected functions:
     Validation :
            1. Enter Sensor Readings page.
            2. Check FAN sensor

6.
    Category: Fix
     Description:
             [73943] IPMI WebGUI no Hardware Information page
     Impact motherboard: All X11 DP.
     Affected functions:
     Validation :
            1. Check Hardware Information page exists.

Filename: SMT_X11DP_020.bin version: 0.20 Date: 09-14-2016

U-Boot build time : 2013.01 (Jul 22 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
    Category: FW release
     Description:
            Support X11SPW-CTF
     Impact motherboard: X11SPW-CTF
     Affected functions:
     Validation :
            1. Support X11SPW-CTF

2.
   Category: Fix
    Description:
        [73622] IPMI [Help] message description no follow guideline rule
    Impact motherboard: All X11DP
    Affected functions:
    Validation :
        1. enter web GUI
        2. check each help page and they should have followed guideline
rules

3.
   Category: Fix
    Description:
        Improve Dedicated LAN functionality for solving IPMI on/off test
failure.
        [73413] System X11DPI-T failed IPMI on/off after 282 cycles.
        [73246] IPMI ON/OFF Stress Test stopped at 22th cycle.
        [72572] System failed to power on when running dedicated LAN IPMI
on/off at the 293th cycle.
        [72485] AC on/off stopped with "BMC DOES NOT HAVE A VALID IP
ADDRESS " error message after one cycle .
    Impact motherboard: All X11 DP.
    Affected functions:
    Validation :
        1. Run power on/off test via IPMI.

4.
   Category: Fix
    Description:
        [73678] iKVM Reset function is fail
    Impact motherboard: All X11 DP.
    Affected functions:
    Validation :
        1. Try IKVM reset feature.

5.
   Category: Fix
    Description:
        [73458] IPMI Web GUI stucked during BIOS update
        [72839] [IPMI]BIOS upload failed by web gui and SUM
    Impact motherboard: X11DRT-PS, X11SPi
    Affected functions:
    Validation :
        1. upgrade BIOS from IPMI Web GUI.
        2. check the BIOS should be upgraded.

Filename: SMT_X11DP_019.bin version: 0.19 Date: 09-02-2016

U-Boot build time : 2013.01 (Jul 22 2016)
Java SOL Viewer version : v0.5.11

Java iKVM Viwer version : v1.69 r29

1.
    Category: Enhancement
     Description:
        Add new version of CPLD query for Thermal Trip and Processor hot
event logs.
     Impact motherboard: All X11DP or AST2500-Based X11UP.
     Affected functions:
     Validation :
        1. Please contact HW tram for installing CPLD code on your
platforms otherwise no IPMI event
           can be recorded for thermal trip or processor hot.
        2. Test thermal trip and processor hot events.

2.
    Category: Fix
     Description:
        [73358] No CPLD version show up under BIOS Setup Menu and IPMI
WebGUI
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
        1. enter the System page:
        2. CPLD version should show up.

3.
    Category: Fix
     Description:
        [73104] Fan Pulse-Width-Modulation Measurement fail
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
        1. enter the Sensor Readings page:
        2. Heat the memory, the fan duty cycle will change.

4.
    Category: Fix
     Description:
        [73036] FAN1-4 did not run heavy I/O mode
     Impact motherboard: X11DPU+
     Affected functions:
     Validation :
        1. enter the Fan Mode page
        2. Select HeavyIO mode & save
        3. enter Sensor Readings page
        4. the fans speed of different zone should be the same or close

5.
    Category: Fix
     Description:
        [73059] IPMI hardware monitor check fail
     Impact motherboard: X11DPU+
     Affected functions:

```
    Validation :
        1. enter Sensor Readings page
        2. the CPU voltage should be close to 1.8V~1.9V

6.
    Category: Fix
     Description:
        [73132] IPMI [Help] message description no follow guideline rule
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
        1. enter web GUI
        2. check each help page and they should have followed guideline
rules

7.
    Category: Fix
     Description:
        [73317] Adupdate.exe upgrade IPMI FW time is too long and over 30
mins
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
        1. update firmware by Adupdate.exe
        2. the time cost should be about 25 mins

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Filename: SMT_X11DP_018.bin version: 0.18 Date: 08-19-2016

U-Boot build time : 2013.01 (Jul 22 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
    Category: Fix
     Description:
        [72721] Network connection lost after changing LAN interface in
IPMI Web GUI from "failover" to "dedicate"
        [72915] IPMI MAC address didn't change immediately after I modify
it by IPMICFG
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
        1. enter configuration page: network
        2. change lan mode from failover to dedicate and will not lost
connection.
        3. change lan mac by ipmicfg would be success.

2.
    Category: Fix
     Description:
        [73104] Fan Pulse-Width-Modulation Measurement fail
        [73103] IPMI Hardware Monitor Check fail
```

[72917] IPMI sensor readings are incorrect
       Impact motherboard: X11SPi
      Affected functions:
           Sensor.
      Validation :
           1. Check sensor reading.

3.
      Category: Fix
       Description:
           [72554] [IPMI]Multi Node function not work
       Impact motherboard: X11DPT-PS
      Affected functions:
           Multi-node function.
      Validation :
           1. Check multi-node info.

4.
      Category: Fix
       Description:
           [72926] Cannot upgrade BIOS by IPMI WebGUI
       Impact motherboard: X11DPU+
      Affected functions:
           BIOS update.
      Validation :
           1. Update BIOS from IPMI Web GUI.
           2. BIOS should be upgraded without problem.

5.
      Category: Fix
       Description:
           [72811] Cannot upgrade IPMI FW by Adupdate.exe
       Impact motherboard: All X11DP
      Affected functions:
      Validation :
           1. Enter DOS.
           2. Execute adupdate.

6.
      Category: Fix
       Description:
           [72999] Does it support PUE and GPU fan speed mode
       Impact motherboard: X11DPU+
      Affected functions:
      Validation :
           1. Enter web page 'fan mode.'
           2. Check supported mode.

7.
      Category: Fix
       Description:
           [71549] Can't trigger CPU thermal trip
       Impact motherboard: X11DPU+
       Affected functions:

Validation :
            1. Heat up system CPU until it shutdown.
            2. Check web page 'Event Log.'
            3. Event 'Thermal Trip' should be there.

8.
    Category: Fix
     Description:
            [73122] IPMI WebGUI Configuration page display in abnormal

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Filename: SMT_X11DP_018.bin version: 0.18 Date: 08-19-2016

U-Boot build time : 2013.01 (Jul 22 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
    Category: Fix
     Description:
            [72721] Network connection lost after changing LAN interface in
IPMI Web GUI from "failover" to "dedicate"
            [72915] IPMI MAC address didn't change immediately after I modify
it by IPMICFG
     Impact motherboard: All X11DP
     Affected functions:
     Validation :
            1. enter configuration page: network
            2. change lan mode from failover to dedicate and will not lost
connection.
            3. change lan mac by ipmicfg would be success.

2.
    Category: Fix
     Description:
            [73104] Fan Pulse-Width-Modulation Measurement fail
            [73103] IPMI Hardware Monitor Check fail
            [72917] IPMI sensor readings are incorrect
     Impact motherboard: X11SPi
     Affected functions:
            Sensor.
     Validation :
            1. Check sensor reading.

3.
    Category: Fix
     Description:
            [72554] [IPMI]Multi Node function not work
     Impact motherboard: X11DPT-PS
     Affected functions:
            Multi-node function.
     Validation :

1. Check multi-node info.

4.
　　Category: Fix
　　Description:
　　　　[72926] Cannot upgrade BIOS by IPMI WebGUI
　　Impact motherboard: X11DPU+
　　Affected functions:
　　　　BIOS update.
　　Validation :
　　　　1. Update BIOS from IPMI Web GUI.
　　　　2. BIOS should be upgraded without problem.

5.
　　Category: Fix
　　Description:
　　　　[72811] Cannot upgrade IPMI FW by Adupdate.exe
　　Impact motherboard: All X11DP
　　Affected functions:
　　Validation :
　　　　1. Enter DOS.
　　　　2. Execute adupdate.

6.
　　Category: Fix
　　Description:
　　　　[72999] Does it support PUE and GPU fan speed mode
　　Impact motherboard: X11DPU+
　　Affected functions:
　　Validation :
　　　　1. Enter web page 'fan mode.'
　　　　2. Check supported mode.

7.
　　Category: Fix
　　Description:
　　　　[71549] Can't trigger CPU thermal trip
　　Impact motherboard: X11DPU+
　　Affected functions:
　　Validation :
　　　　1. Heat up system CPU until it shutdown.
　　　　2. Check web page 'Event Log.'
　　　　3. Event 'Thermal Trip' should be there.

8.
　　Category: Fix
　　Description:
　　　　[73122] IPMI WebGUI Configuration page display in abnormal
　　Impact motherboard: All X11DP
　　Affected functions:
　　Validation :
　　　　1. Enter any web page in 'Configuration'
　　　　2. the page should be normally displayed

```
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Filename: SMT_X11DP_017.bin version: 0.17 Date: 07-22-2016

U-Boot build time : 2013.01 (Jul 22 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
   Category: FW release
    Description:
        Support X11SPi-TF
    Impact motherboard: X11SPi-TF
    Affected functions:
    Validation :
        1. Enable IPMI function in BIOS setup menu.

2.
   Category: Fix
    Description:
        [72283] [X11DPT-PS] CPU sensor reading error.
    Impact motherboard: X11DPT-PS
    Affected functions:
        CPU sensor.
    Validation :
        1. Check CPU sensor reading.


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Filename: SMT_X11DP_016.bin version: 0.16 Date: 06-24-2016

U-Boot build time : 2013.01 (Jun 17 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
   Category: Fix
    Description:
        [71637] IPMI LAN LED is incorrect.
    Impact motherboard: All X11DP motherboards.
    Affected functions:
        Dedicated LAN LED.
    Validation :
        1. Check LAN LED's blinking when system is on.

2.
   Category: Fix
    Description:
        [71514] KVM console resolution is incorrect.
    Impact motherboard: All X11DP motherboards.
    Affected functions:
        Console Redirection.
    Validation :
        1. Change host OS resolution.
```

```
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Filename: SMT_X11DP_015.bin version: 0.15 Date: 05-29-2016

U-Boot build time : 2013.01 (Mar 25 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r29

1.
    Category: New Feature
     Description:
         Use new image signature in following firmware versions.
     Impact motherboard: All X11DP motherboards.
     Affected functions:
         Firmware update function is affected.
         This version cannot be upgraded from older versions by any kind
of UI.
         Users cannot downgrade BMC FW to older versions neither if they
are using this version.
     Validation :
         1. Update this version by SPI flash programmer and then run IPMI
tests.

2.
    Category: Fix
     Description:
         Enable RMII1 50MHz RCLK output for enabling NCSI on X11DP.
     Impact motherboard: All X11DP motherboards.
     Affected functions:
         Share LAN.
     Validation :
         1. Conduct share LAN tests.

3.
    Category: Enhancement
     Description:
         Improve IPMB communication between BMC and ME. (SMLINK0)
     Impact motherboard: All
     Affected functions:
     Validation :
         1. Conduct ME tests via BMC.

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Filename: SMT_X11DP_014.bin version: 0.14 Date: 03-24-2016

U-Boot build time : 2013.01 (Feb 01 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r24

1.
    Category: FW release
     Description:
```

```
        Improve several functions for IPMB, mouse cursor, sensors and
BIOS update.
     Impact motherboard: All X11DP motherboards.
     Affected functions:
     Validation :
         1. Run IPMI tests.


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Filename: SMT_X11DP_013.bin version: 0.13 Date: 03-04-2016

U-Boot build time : 2013.01 (Feb 01 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r24

1.
    Category: FW release
     Description:
         Support X11DRT-PS
     Impact motherboard: X11DRT-PS
     Affected functions:
     Validation :
         1. Enable BMC function in BIOS setup menu.

2.
    Category: New Feature
     Description:
         Support Thermal Trip features.
     Impact motherboard: All X11 DP motherboards.
     Affected functions:
     Validation :
         1. Conduct thermal related tests.


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Filename: SMT_X11DP_012.bin version: 0.12 Date: 02-19-2016

U-Boot build time : 2013.01 (Feb 01 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r24

1.
    Category: FW release
     Description:
         Support X11DRI/X11DRI-T and X11DRU+
         (Please do not use this version to verify X11SRE)
     Impact motherboard: X11DRI/X11DRI-T and X11DRU+
     Affected functions:
     Validation :
         1. Enable BMC function in BIOS setup menu.
         2. Check sensor readings.


--------------------------------------------------------------------------
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```

Filename: SMT_X11DP_011.bin version: 0.11 Date: 01-29-2016

U-Boot build time : 2013.01 (Jan 20 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r24

1.
    Category: Fix
     Description:
         [68706] IPMI can't work.
     Impact motherboard: X11SRE
     Affected functions:
     Validation :
         1. Enable 'BMC Support' in BIOS setup menu.
         2. Run 'ipmicfg -m' command.

2.
    Category: Fix
     Description:
         [68384] IPMI sensors function not ready.
     Impact motherboard: X11SRE
     Affected functions:
     Validation :
         1. Boot up system.
         2. Monitor sensor readings from WebUI or ipmitool.

Filename: SMT_X11DP_010.bin version: 0.10 Date: 01-08-2016

U-Boot build time : 2013.01 (01 08 2016)
Java SOL Viewer version : v0.5.11
Java iKVM Viwer version : v1.69 r24

1.
    Category: FW release
    Description:
     First release.

    Impact motherboard: X11SRE
    Affected functions:
    Validation :
        1. Support new mother board.