Monthly Specification Update

Intel® Server Board S2600CP Family

Intel® Server Board S2600CO Family

Intel® Server System P4000CP Family

May, 2014

Intel® Server Boards & Systems
Revision History

<table>
<thead>
<tr>
<th>Date</th>
<th>Modifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>March, 2012</td>
<td>Initial release.</td>
</tr>
<tr>
<td>April, 2012</td>
<td>Added item #15, #16, #17</td>
</tr>
<tr>
<td>May, 2012</td>
<td>Added item #18, #19, #20, #21</td>
</tr>
<tr>
<td>July, 2012</td>
<td>Added item #22, #23, #24 and updated item #10, #19, #21</td>
</tr>
<tr>
<td>August, 2012</td>
<td>Added item #25, #23, #24 and updated item #7, #9, #15</td>
</tr>
<tr>
<td>September, 2012</td>
<td>No update</td>
</tr>
<tr>
<td>October, 2012</td>
<td>Added item #27 and updated item #2, #19</td>
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<tr>
<td>November, 2012</td>
<td>No update</td>
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<tr>
<td>December, 2012</td>
<td>No update</td>
</tr>
<tr>
<td>January, 2013</td>
<td>Added item #28, #29, Updated item #4, #5, #12, #13, #14, #16, #17, #19, #24</td>
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<tr>
<td>September, 2013</td>
<td>Added item #30, #31, Updated item #3</td>
</tr>
<tr>
<td>February, 2014</td>
<td>Updated item #22, #25, #26, #27, #29</td>
</tr>
<tr>
<td>May, 2014</td>
<td>Added item #33</td>
</tr>
</tbody>
</table>

Disclaimers

This Monthly Specification Update of the Server System may contain design defects or errors known as errata that may cause the product to deviate from the published specifications. Current characterized errata are documented in this Specification Update.

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Contents

Preface......................................................................................................................1
1. Nomenclature...........................................................................................................1
2. Product Scope.........................................................................................................1

Summary Tables of Changes ...................................................................................3

Errata ..........................................................................................................................5
1. Linux* Operating Systems are not supported on RSTe mode.........................5
2. UEFI Windows Server 2008* R2 SP1 installation on SCU ports may fail under
   RSTe RAID mode....................................................................................................5
3. UEFI Operating System installation is not supported on ESRT2 mode..............5
4. HDD status LEDs do not function under specific configuration.....................6
5. RSTe GUI installation may fail if there are no devices attached to any onboard
   AHCI ports.............................................................................................................6
6. BMC continuously sends RAID volume rebuild event in RSTe mode of the SCU
   controller...................................................................................................................6
7. System may halt under specific BIOS configurations......................................6
8. Microsoft Windows 2003* x86 installation failure under Pass-through mode of SCU
   controller.................................................................................................................7
9. System may halt under unsupported configuration in ESRT2 mode....................7
10. Extra events may be seen in the System Event Log (SEL) during system global
    reset.......................................................................................................................7
11. System may continuously report a faulty or assert/deassert log when having blank
    HDD carriers or un-configured HDDs...................................................................8
    as zero.....................................................................................................................8
13. Integrated BMC Web Console – Power Control page – Perform Action button not functional. .................................................................8
14. IPMI Get Chassis Status command returns incorrect Chassis Identify State. .......9
15. The BIOS and ME Firmware can't be updated successfully via Intel® One Boot
    Flash Update Utility (OFU) under SuSE Linux Enterprise Server 11* (64-bit) with SP2 .......9
16. BMC continuously sends HDD assert/de-assert event during HDD RAID rebuild
    under ESRT2 mode of the SCU controller ..........................................................9
17. High CPU utilization may occur when installing or running Microsoft* Windows*
    Server 2008 R2 or Microsoft* Windows* 7 with default NIC driver for Intel® Gigabit ET Dual
    Port Server Adapter E1G42ET and Intel® Gigabit ET Quad Port Server Adapter E1G44ET..10
18. Intel® RAID C600 Upgrade Key replacement Issue ...........................................10
19. ESRT2 RAID is not supported on Intel® Server Board S2600CP2/S2600CP2J ...10
20. System may detect unrecognized sensors ............................................................11
21. Intel® LAN driver installation failure on Windows* 7 ..........................................11
22. Hard drives connected through SAS expander can’t be detected in legacy mode 11
23. System will boot from on-board video although install add-in video card .........12
24. On-board VGA cannot be set to the highest resolution (1920x1080 and higher). 12
    sensor status will stay “Critical” once triggered ..........................................................12
26. WOL (Wake on LAN) may not function under Red Hat* Linux 6.2 64bit OS ........12
27. System only reports the first occurrence of power redundancy loss .....................13
28. BMC will generate flood event log and send PEF continuously .............................13
29. System BIOS may report POST error code 0x146 with the Intel® Xeon Phi™
    Coprocessor installed .....................................................................................................14
30. The Intel® Xeon® Phi™ Coprocessor PCI Express* Card Status Sensor may
    show "Unknown" ..............................................................................................................14
31. The Intel® Xeon® Phi™ Coprocessor PCI Express* Card sensors numbering may
    not be consistent with riser slot numbering ....................................................................14
32. Reported processor frequency is lower than expected when the BIOS setup option
    EIST is disabled and the system is also in idle mode ......................................................15
33. When using the 3ware® RAID controller cards, the system may hang after creating
    RAID logic volume with BIOS R02.01.0002 or R02.02.0002 .....................................15

Documentation Changes ....................................................................................................16
Preface

This document is an update to the specifications contained in the Intel® Server Board S2600CP Family and Intel® Server System P4000CP Family Technical Product Specification. It is intended for hardware system manufacturers and software developers of applications, operating systems, or tools. It will contain specification changes, specification clarifications, errata, and document changes.

1. Nomenclature

Specification Changes are modifications to the current published specifications for Intel® server boards. These changes will be incorporated in the next release of the specifications.

Specification Clarifications describe a specification in greater detail or further highlight a specification’s impact to a complex design situation. These clarifications will be incorporated in the next release of the specifications.

Documentation Changes include typos, errors, or omissions from the current published specifications. These changes will be incorporated in the next release of the specifications.

Errata are design defects or errors. Errata may cause the server board behavior to deviate from published specifications. Hardware and software designed to be used with any given processor stepping must assume that all errata documented for that processor stepping are present on all devices.

2. Product Scope

The following specific boards, BIOS and components are covered by this update:

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Baseboard PBA Revision</th>
<th>BIOS Revision</th>
<th>BMC Revision</th>
<th>FRU/SDR Revision</th>
<th>ME Revision</th>
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</thead>
<tbody>
<tr>
<td>S2600CP2</td>
<td>-50x</td>
<td>01.01.0001</td>
<td>1.00</td>
<td>1.00</td>
<td>02.01.05.069</td>
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<td>S2600CP2J</td>
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<td>1.04</td>
<td>02.01.05.107</td>
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<td>S2600CP4</td>
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<td>S2600CO4</td>
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</tbody>
</table>
Summary Tables of Changes

The following tables provide an overview of known errata and known document changes that apply to the specified Intel Server Products. The tables use the following notations:

- **Doc:** Intel intends to update the appropriate documentation in a future revision.
- **Fix:** Intel intends to fix this erratum in the future.
- **Fixed:** This erratum has been previously fixed.
- **No Fix:** There are no plans to fix this erratum.
- **Shaded:** This erratum is either new or has been modified from the previous specification update.

### Table 1. Errata Summary

<table>
<thead>
<tr>
<th>No.</th>
<th>Plans</th>
<th>Description of Errata</th>
</tr>
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<tbody>
<tr>
<td>1.</td>
<td>Fix</td>
<td>Linux Operating Systems are not supported on RSTe mode</td>
</tr>
<tr>
<td>2.</td>
<td>Fixed</td>
<td>UEFI Windows Server 2008* R2 SP1 installation on SCU ports may fail under RSTe RAID mode</td>
</tr>
<tr>
<td>3.</td>
<td>Will not fix</td>
<td>UEFI Operating System installation is not supported on ESRT2 mode</td>
</tr>
<tr>
<td>4.</td>
<td>Fixed</td>
<td>HDD status LEDs do not function under specific configuration</td>
</tr>
<tr>
<td>5.</td>
<td>Fixed</td>
<td>RSTe GUI installation may fail if there are no devices attached to any onboard AHCI ports</td>
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<td>6.</td>
<td>Fixed</td>
<td>BMC continuously sends RAID volume rebuild event in RSTe mode of the SCU controller</td>
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<td>Fixed</td>
<td>System may halt under unsupported configuration in ESRT2 mode</td>
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<td>8.</td>
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<td>Extra events may be seen in the System Event Log (SEL) during system global reset</td>
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<td>12.</td>
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<td>IPMI Get Chassis Status command returns incorrect Chassis Identify State</td>
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<td>13.</td>
<td>Fixed</td>
<td>The BIOS and ME Firmware can't be updated successfully via Intel® One Boot Flash Update Utility(OFU) under SuSE Linux Enterprise Server 11* (64-bit) with SP2</td>
</tr>
<tr>
<td>14.</td>
<td>Fixed</td>
<td>BMC continuously sends HDD assert/de-assert event during HDD RAID rebuild under ESRT2 mode of the SCU controller</td>
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<td>15.</td>
<td>Fixed</td>
<td>High CPU utilization may occur when installing or running Microsoft* Windows* Server 2008 R2 or Microsoft* Windows* 7 with default NIC driver</td>
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<td>Fixed</td>
<td>Intel® RAID C600 Upgrade Key replacement Issue</td>
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<td>17.</td>
<td>Fixed</td>
<td>ESRT2 RAID is not supported on Intel® Server Board S2600CP2/S2600CP2J</td>
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<td>18.</td>
<td>Fixed</td>
<td>System may detect unrecognized sensors</td>
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<td>Fixed</td>
<td>Intel® LAN driver installation failure on Windows* 7</td>
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<td>Hard drives connected through SAS expander can't be detected in legacy mode</td>
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### Monthly Specification Update

#### Intel® Server Boards & Systems

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<tr>
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<th>Plans</th>
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</tr>
</thead>
<tbody>
<tr>
<td>25.</td>
<td>Fixed</td>
<td>Integrated BMC Web Console – Sensor Readings Page – Memory Throttling sensor status will stay “Critical” once triggered</td>
</tr>
<tr>
<td>26.</td>
<td>Fixed</td>
<td>WOL (Wake on LAN) may not function under Red Hat* Linux 6.2 64bit OS</td>
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<td>27.</td>
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<td>System only reports the first occurrence of power redundancy loss</td>
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<td>Fix</td>
<td>BMC will generate event log until it full and send PEF continuously</td>
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<td>System BIOS may report POST error code 0x146 with the Intel® Xeon Phi™ Coprocessor installed</td>
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<td>The Intel® Xeon Phi™ Coprocessor PCI Express* Card Status Sensor may show “Unknown”</td>
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<td>31.</td>
<td>Fix</td>
<td>The Intel® Xeon Phi™ Coprocessor PCI Express* Card sensors numbering may not be consistent with riser slot numbering</td>
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#### Table 2. Documentation Changes

<table>
<thead>
<tr>
<th>No.</th>
<th>Plans</th>
<th>Document Name</th>
<th>Description of Documentation Change</th>
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<td>2.</td>
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<td>3.</td>
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</tbody>
</table>

The following sections provide in-depth descriptions of each erratum/documentation change indicated in the tables above. The errata and documentation change numbers referenced in the following sections correspond to the numbers in the tables above.
Errata

1. **Linux* Operating Systems are not supported on RSTe mode**

   **Problem** Intel® RSTe mode is not supported on Red Hat* Linux and SUSE* Linux.
   
   **Implication** User may not able to install Red Hat* Linux and SUSE* Linux on Intel® C600 Series Chipset based Server Boards under Intel® RSTe mode
   
   **Status** This issue may be fixed in future driver or BIOS releases.
   
   **Workaround** None.

2. **UEFI Windows Server 2008* R2 SP1 installation on SCU ports may fail under RSTe RAID mode**

   **Problem** System may encounter blue screen when installing Windows Sever 2008* R2 SP1 under UEFI with below configurations:
   
   1. Intel® C600 RAID Upgrade Key is installed and SAS HDDs are used on SCU ports.
   2. BIOS options “EFI Optimized Boot” and “Use Legacy Video for EFI OS” are enabled.
   3. Under RSTe RAID mode.
   
   **Implication** User may not able to install UEFI Windows Server 2008* R2 SP1 on Intel® C600 Series Chipset based Server Boards with mentioned configuration.
   
   **Status** This issue is fixed in BIOS R01.04.1001 or later version.
   
   **Workaround** None.

3. **UEFI Operating System installation is not supported on ESRT2 mode**

   **Problem** UEFI OS installation of Windows*, Red Hat* Linux or SUSE* Linux may fail on AHCI or SCU controller when “EFI Optimized Boot” and “Use Legacy Video for EFI OS” are both enabled.
   
   **Implication** User may not be able to install UEFI OS under ESRT2 mode on Intel® C600 Series Chipset based Server Boards
   
   **Status** Will not be fixed.
   
   **Workaround** None.
4. **HDD status LEDs do not function under specific configuration**

**Problem** If drives are connected through expander to SCU ports and configured under RSTe mode, the HDD status LEDs may not function properly.

**Implication** HDD status LED may not show the HDD locate, HDD fault or RAID rebuild message.

**Status** This issue is fixed in RSTe driver 3.2.0.1134 and later version.

**Workaround** None.

5. **RSTe GUI installation may fail if there are no devices attached to any onboard AHCI ports**

**Problem** When Microsoft Windows 2008* R2 is installed on SCU ports, the installation of RSTe drivers and the Graphic User Interface (GUI) in Windows 2008* R2 will fail, if the AHCI controller is enabled while no device is attached to the AHCI SATA ports.

**Implication** User may not be able to install RSTe GUI under mentioned configuration when the AHCI controller is enabled and no devices are attached to the AHCI SATA ports.

**Status** This issue is fixed in BIOS 01.03.0002 or later version.

**Workaround** The workaround is to either plug a SATA device into one of the AHCI SATA ports, or disable the onboard AHCI controller in BIOS.

6. **BMC continuously sends RAID volume rebuild event in RSTe mode of the SCU controller**

**Problem** When RSTe RAID is in degraded mode and a drive is inserted to start the RAID rebuild, System Event Log (SEL) records drive plug and rebuild events and then continuously sends a rebuild event message.

**Implication** User may see the SEL flooded with RAID volume rebuild event entries.

**Status** This issue was fixed in latest RSTe driver ver 3.0.0.3020.

**Workaround** None.

7. **System may halt under specific BIOS configurations**

**Problem** Once BIOS options “EFI Optimized Boot” and “Memory Mapped I/O Above 4GB” are both enabled, and RSTe mode is selected, system may halt during the system POST.
Implication  User may see system hang with mentioned configuration.

Status  This issue is fixed in BIOS release R01.03.0002.

Workaround  None.

8. **Microsoft Windows 2003* x86 installation failure under Pass-through mode of SCU controller**

Problem  Microsoft Windows Server 2003* x86 installations on SCU RSTe pass-through mode fail.

Implication  User may not able to install Microsoft Windows Server 2003* x86 on mentined BIOS configuration.

Status  This issue may be fixed in a future RSTe driver release.

Workaround  Microsoft Windows Server 2003* x64 can be installed under the same configuration as alternative solution.

9. **System may halt under unsupported configuration in ESRT2 mode**

Problem  If no Intel® C600 RAID upgrade key (any of RKSAS4, RKSAS4R5, RKSAS8, RKSAS8R5) is installed to enable SAS support capability under ESRT2 mode while SAS drivers are used, the system may halt at the boot stage.

Implication  User may see a system halt with no RAID keys installed with SAS drivers used and ESRT2 enabled. User should use SATA drives only if no RAID key installed.

Status  This issue is fixed in BIOS release R01.03.0002.

Workaround  None.

10. **Extra events may be seen in the System Event Log (SEL) during system global reset**

Problem  The BMC may sporadically log extra reset event during a system DC reset (global reset). These events may appear as there is an extra reset during BIOS POST.

The following SEL entries indicate two resets in a POST process:

*Informational event: Pwr Unit Status reports the power unit is powered off or being powered down.*

*Informational event: Pwr Unit Status reports the power unit is powered off or being powered down.*
Implication  The SEL log may indicate that system has an occasional reset in a normal POST during DC cycle test (global reset).

Status  This issue was fixed in BMC 1.04.

Workaround  None.

11. **System may continuously report a faulty or assert/deassert log when having blank HDD carriers or un-configured HDDs**

Problem  With ESRT2 SATA RAID 5 config with 3 HDDs, put the 4th HDD in drive carrier and set it to either unconfigured or global hot spare. System event log may be flooded with HDD faulty entries.

With ESRT2 SAS RAID 1 with 2 HDDs, put 3rd HDD and set to unconfigured or global hot spare. System event log may be flooded flood with HDD faulty entries.

Implication  User may see the SEL flooded with HDD faulty entries when either of the two scenarios above are used.

Status  This issue was fixed in BMC 1.04 and later version.

Workaround  None.

12. **Integrated BMC Web Console – Power Statistics page – Minimum wattage reads as zero.**

Problem  On some systems the Integrated BMC Web Console Power Statistic page may display the Minimum wattage as zero (0W) after the system has been powered. This reading will stay at zero until the next power cycle of the system.

Implication  This is an incorrect reading only and does not affect operation.

Status  This issue is fixed in BMC release 1.10 and later version.

Workaround  None.


Problem  After performing a Graceful shutdown from the Integrated BMC Web Console Power Control page the Perform Action button gets grayed out and cannot be pressed to request another action.

Implication  You cannot perform a power on of the system.

Status  This issue is fixed in BMC release 1.10 and later version
Workaround  Select another page in the Integrated BMC Web Console and then return to the Power Control Page. The Perform Action button will then be available.

14. **IPMI Get Chassis Status command returns incorrect Chassis Identify State.**

   **Problem**  When a Get Chassis Status command is issued, after the Chassis Identify LED has been forced on, the status of off (00b) is returned for Chassis Identify State (response data byte 4 – bits [5:4]).

   **Implication**  Unable to correctly read when the Chassis Identify LED is on.

   **Status**  This issue is fixed in BMC release 1.10 and later version

   **Workaround**  None.

15. **The BIOS and ME Firmware can’t be updated successfully via Intel® One Boot Flash Update Utility(OFU) under SuSE Linux Enterprise Server 11* (64-bit) with SP2**

   **Problem**  OFU will fail to update BIOS & ME under SuSE Linux Enterprise Server 11* (64-bit) with SP2 Operating System.

   **Implication**  If the system is running SuSE Linux Enterprise Server 11* (64-bit) with SP2 Operating System, using OFU to update System Firmware Update Package(SFUP) will fail.

   **Status**  This issue is fixed in OFU Version 11.0 Build 8.

   **Workaround**  Update System Firmware Update Package(SFUP) from EFI environment using iFlash32, FWPIAUpdate and FRUSDR Utility

16. **BMC continuously sends HDD assert/de-assert event during HDD RAID rebuild under ESRT2 mode of the SCU controller**

   **Problem**  HDD fault will keep asserting and de-asserting frequent during RAID rebuild under ESRT2

   **Implication**  During HDD ESRT2 RAID rebuild, there’s flood HDD fault assert/deassert(SAS RAID) or Rebuild/remap (SATA RAID) logs into SEL.

   **Status**  This issue is fixed in ESRT2 driver release 15.00.0528.2012 and later version

   **Workaround**  None.
17. **High CPU utilization may occur when installing or running Microsoft* Windows* Server 2008 R2 or Microsoft* Windows* 7 with default NIC driver for Intel® Gigabit ET Dual Port Server Adapter E1G42ET and Intel® Gigabit ET Quad Port Server Adapter E1G44ET**

**Problem**
There has been high CPU load observed when installing or running Microsoft Windows Server 2008 R2 or Microsoft Windows 7 with default NIC (Network Interface Card) driver for Intel® Gigabit ET Dual Port Server Adapter E1G42ET and Intel® Gigabit ET Quad Port Server Adapter E1G44ET.

**Implication**
When the ports are not electrically "linked" and the embedded driver is loaded the DPC rate steadily increases until the system slows to the point where it is essentially unusable.

**Status**
This issue is fixed in NIC driver 16.8 and later version.

**Workaround**
None.

18. **Intel® RAID C600 Upgrade Key replacement Issue**

**Problem**
With Manageability Engine (ME) Firmware 02.01.05.069, the Intel® Server Board S2600CP and Intel® Server System P4000CP may detect the incorrect Storage Control Unit (SCU) Redundant Array of Inexpensive/Independent Disks (RAID) information after installing or replacing the RAID upgrade key. The board or system may still show the previous RAID information even if you replace the key with a new one.

**Implication**
With the ME firmware 02.01.05.069, the system may not detect the new RAID activation key during the first time AC power on.

**Status**
The issue is fixed with ME firmware 02.01.05.091.

**Workaround**
Do a second AC power cycle to the system after the RAID upgrade key has been installed or replaced to ensure the correct type of key is identified.

19. **ESRT2 RAID is not supported on Intel® Server Board S2600CP2/S2600CP2J**

**Problem**
The Intel® Embedded Server RAID Technology 2 (ESRT2) is not supported on the Intel® Server Board S2600CP2 and Intel® Server Board S2600CP2J. With the current ESRT2 drivers that are available now, these server boards cannot detect storage devices during the Operating System (OS) installation process for all Operating Systems.

**Implication**
The OS installation process will fail under ESRT2 mode on Intel® Server Board S2600CP2 and Intel® Server Board S2600CP2J. The Intel® Server Board S2600CP4 board is not impacted by this issue.
Status The issue is fixed with ESRT2 driver 15.00.0927.2012.

Workaround None.

**20. System may detect unrecognized sensors**

**Problem** Prior to updating the system with the FRU/SDR package, the system may detect unrecognized sensors.

**Implication** The system may have additional System Event Log (SEL) for the unrecognized sensors being detected, system status LED may turn amber and system FAN may boost.

**Status** The issue may be fixed in a future firmware release.

**Workaround** Update the system with FRU/SDR package

**21. Intel® LAN driver installation failure on Windows* 7**

**Problem** The Intel® LAN driver version 16.8 and below may not be installed successfully on Windows* 7 with the .bat installation scripts in the driver package.

**Implication** The LAN driver can not be installed by the .bat installation scripts in the driver package.

**Status** The issue is fixed in Intel® LAN driver version 17.1

**Workaround** Two workarounds are available:

1. The LAN driver can be manually installed.
2. User can lower the “User Account Control” to “Never Notify”, then the driver can be installed with the .bat installation scripts.

**22. Hard drives connected through SAS expander can’t be detected in legacy mode**

**Problem** If hard drives are connected through expander to SCU ports and configured under RSTe mode, the hard drives can’t be detected by system in legacy mode (default BIOS setting).

**Implication** Users can’t use the hard drives connected through expander as boot device to install OS. But users can install OS to other hard drives which are not connected through expander and load RSTe driver to make the hard drives connected through expander visible to OS. Or users can change Boot Options -> EFI Optimized Boot to “Enabled” in BIOS Setup so that hard drives connected through expander can be detected by the system.

**Status** This issue was fixed in BIOS 01.08.0003 and later release.
Workaround  None.

23. System will boot from on-board video although install add-in video card

Problem  When try to boot from add-in video card, system can not boot up.

Implication  Bios video output policy by default was booting from onboard video although install the add-in video card.

Status  This issue was fixed in BIOS 01.02.0009 and changed video output to installed add-in video card by default.

Workaround  Need to install internal video cable to boot up system first then disable on-board video option in Bios.

24. On-board VGA cannot be set to the highest resolution (1920x1080 and higher).

Problem  The Graphics ID register in the on-board video controller is getting set incorrectly.

Implication  The video cannot be set to the highest resolutions listed here:

- [1920x1080, High 256 Color, 60 Hertz]
- [1920x1200, High 256 Color, 60 Hertz]
- [1920x1080, High Color(16bit), 60 Hertz]
- [1920x1200, High Color(16bit), 60 Hertz]

Status  This issue may be fixed in a future BMC release.

Workaround  None.

25. Integrated BMC Web Console – Sensor Readings Page – Memory Throttling sensor status will stay “Critical” once triggered

Problem  When Memory Throttling is triggered, the Memory “P1 MTT and/or P2 MTT” sensor status will stay at “Critical” status in the Integrated BMC Web Console even after throttling has stopped.

Implication  You may observe Memory “P1 MTT and/or P2 MTT” status as “Critical” even when there is no throttling. No functional impact to the system.

Status  This issue was fixed in ME 02.01.07.328 and later release.

Workaround  Need a AC cycle or reset ME through IPMI to reset the MTT sensor status.

26. WOL (Wake on LAN) may not function under Red Hat* Linux 6.2 64bit OS
Problem With Intel® LAN driver version 17.1, WOL (Wake on LAN) may not function under Red Hat* Linux 6.2 64bit OS.

Implication You may not be able to wake system through onboard NIC port.

Status This issue was fixed in a LAN driver 17.4 release.

Workaround None.

27. **System only reports the first occurrence of power redundancy loss**

Problem System only reports the first occurrence of power redundancy loss, further power redundancy loss will not be reported unless an AC cycle is applied.

Implication Users can not see a power redundancy loss in System Event Log as below:

Power Unit, Pwr Unit Redund (#0x2)
Informational event: Pwr Unit Redund reports full redundancy has been lost.
Integrated BMC - LUN#0 (Channel#0)

Status This issue was fixed in a BMC 1.17 release.

Workaround None.

28. **BMC will generate flood event log and send PEF continuously**

Problem 1. Use IPMI tool to set a PEF (6 commands)
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x04 0x12 0x01 0x01
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x04 0x12 0x02 0x01
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x04 0x12 0x9 0x14 0xa8 0x1f 0x0
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x04 0x12 0x6 0x14 0x80
   0x1 0xa 0x10 0xff 0xff 0xff 0xff 0xff 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0 0x0
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x0c 0x01 0x1 0x12 0xf
   0x80 0x5 0x7
   ipmitool -H xxx.xxx.xxx.xxx -U xxx -P xxxxxx raw 0x0c 0x01 0x1 0x13 0xf 0x0
   0x0 0xa 0x24 0x71 0x7b 0x0 0x0 0x0 0x0 0x0 0x0 0x0
2. Go to BMC web console and go to configurations=>alert, check all alert and must set destination IP to remote console =>Save
3. Try to generate an event (unplug power), you can see there are a lot of event in event log and make event log full.
4. Even when restore the PSU, the SEL is continuing to grow w/o PSU redundancy regain.

Implication The flood even log will fulfill the SEL in several minutes

Status The issue may be fix in future BMC release

Workaround Restore the system and uncheck all alerts in BMC web console.
29. **System BIOS may report POST error code 0x146 with the Intel® Xeon Phi™ Coprocessor installed**

**Problem**
System BIOS may report POST error code 0x146 “PCI out of resource error” when one or more Intel® Xeon Phi™ Coprocessors are installed with the BIOS default setting.

**Implication**
The Intel® Xeon Phi™ Coprocessor might not be recognized using the default BIOS setting as it requires more PCI space.

**Status**
This issue was fixed in BIOS release R02.01.0002 and later release.

**Workaround**
Press F2 to enter BIOS Setup, change Advanced -> PCI Configuration -> Memory Mapped I/O Size to 256G or larger. The value also depends on your system PCI configuration.

30. **The Intel® Xeon® Phi™ Coprocessor PCI Express* Card Status Sensor may show “Unknown”**

**Problem**
When only one Intel® Xeon® Phi™ Coprocessor PCI Express* Card (MIC card) is installed in the server system, the card status sensor “MIC 1 Status” or “MIC 2 Status” may show “Unknown” in Intel® Integrated BMC Web Console.

**Implication**
Users may not get the correct MIC status in Intel® Integrated BMC Web Console. There is no function impact to the server system. This issue doesn’t happen when two Intel® Xeon® Phi™ Coprocessor PCI Express* Cards are installed.

**Status**
This issue was fixed in BMC 01.19.4926 and later release.

**Workaround**
None.

31. **The Intel® Xeon® Phi™ Coprocessor PCI Express* Card sensors numbering may not be consistent with riser slot numbering**

**Problem**
The Intel® Xeon® Phi™ Coprocessor PCI Express* Card (MIC card) sensors numbering may not be consistent with riser slot numbering on the server board. When a Intel® Xeon® Phi™ Coprocessor PCI Express* Card is installed in the server system, in Intel® Integrated BMC Web Console, the card sensor may show “MIC 2 Status” and “MIC 2 Margin” if the card is installed on “RISER SLOT_1” and “MIC 1 Status” and “MIC 1 Margin” if the card is installed on “RISER SLOT_2”.

**Implication**
Users need to read MIC 2 sensors for a card installed on “RISER SLOT_1” and read MIC 1 sensors for a card installed on “RISER SLOT_2”. There is no function impact to the server system.

**Status**
This issue will be fixed in a future BMC release.
Workaround None.

32. **Reported processor frequency is lower than expected when the BIOS setup option EIST is disabled and the system is also in idle mode.**

   **Problem** When the system is in idle mode during OS runtime and EIST is disabled in BIOS setup, the reported processor speed may report a lower than expected frequency.

   **Implication** EIST may function incorrectly.

   **Status** This issue may be fixed in a future BIOS update.

   **Workaround** N/A.

33. **When using the 3ware® RAID controller cards, the system may hang after creating RAID logic volume with BIOS R02.01.0002 or R02.02.0002.**

   **Problem** When installing the 3ware® RAID controller card in certain PCIe slots, the system may hang after creating RAID logic volume with BIOS R02.01.0002 or BIOS R02.02.0002.

   **Implication** Customers will observe a system hang when using the 3ware® RAID controller card to create RAID logic volume.

   **Status** This issue will be fixed in a future BIOS release.

   **Workaround** None.
Documentation Changes

N/A