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1.0 Overview of the Release

This document provides a brief overview of the changes introduced into the Intel® Omni-Path Q7 BIOS and Board Controller Firmware (Q7 BIOS) by this release. Intel® Omni-Path Q7 BIOS is used for the hardware listed in Table 3 on page 7.

The information contained in this document is intended as supplemental information only; it should be used in conjunction with the documentation provided for each component.

These Release Notes list the features supported in this release, open issues, and issues that were resolved during release development.

1.1 Audience

The information provided in this document is intended for installers, software support engineers, service personnel, and system administrators.

1.2 Document Versions

The following table lists the end user document versions supported by this release.

Table 1. Supported Document Versions

<table>
<thead>
<tr>
<th>Title</th>
<th>Doc. Number</th>
<th>Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Omni-Path Fabric Quick Start Guide</td>
<td>J57479</td>
<td>4.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Setup Guide</td>
<td>J27600</td>
<td>8.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches Hardware Installation Guide</td>
<td>H76456</td>
<td>7.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Host Fabric Interface Installation Guide</td>
<td>H76466</td>
<td>5.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Software Installation Guide</td>
<td>H76467</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches GUI User Guide</td>
<td>H76457</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches Command Line Interface Reference Guide</td>
<td>H76458</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Suite FastFabric Manager User Guide</td>
<td>H76468</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Suite Fabric Manager GUI User Guide</td>
<td>H76471</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Host Software User Guide</td>
<td>H76470</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Performance Scaled Messaging 2 (PSM2) Programmer’s Guide</td>
<td>H76473</td>
<td>9.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Performance Tuning User Guide</td>
<td>H93143</td>
<td>11.0</td>
</tr>
<tr>
<td>Intel® Omni-Path IP and LNet Router Design Guide</td>
<td>H99668</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Software License Agreement
This software is provided under license agreements and may contain third-party software under separate third-party licensing. Please refer to the license files provided with the software for specific details.

1.4   If You Need Help
Technical support for Intel® Omni-Path products is available 24 hours a day, 365 days a year. Please contact Intel Customer Support or visit http://www.intel.com/omnipath/support for additional detail.

1.5   Supported Features
- The list of supported hardware is in Table 3 on page 7.
- Creates a standalone package of Q7 BIOS and Board Controller Firmware that is external to the Intel OPA IFS package

1.6   Firmware Files
This release contains the firmware files listed in the table below.

<table>
<thead>
<tr>
<th>Description</th>
<th>File Name</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q7 BIOS</td>
<td>QA3ER962.q7.spkg</td>
<td>QA3ER962</td>
</tr>
<tr>
<td>Q7 Board Controller Firmware</td>
<td>CGBCP429.q7.spkg</td>
<td>CGBCP429</td>
</tr>
</tbody>
</table>

1.7   Intel Hardware
All Omni-Path managed switches require (at minimum) the Q7 BIOS and Board Controller Firmware shown in Table 2.
Table 3. Supported Intel Hardware

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100SWE24QF2</td>
<td>OPA 100 1U 24 Port 2PS Std-Air Managed</td>
</tr>
<tr>
<td>100SWE48QR2</td>
<td>OPA 100 1U 48 Port 2PS Std-Air Managed</td>
</tr>
<tr>
<td>100SWE48QF1</td>
<td>OPA 100 1U 48 Port 1PS Std-Air Managed</td>
</tr>
<tr>
<td>100SWD06B1N</td>
<td>OPA 100 6 Slot Chassis 1MM N Power</td>
</tr>
<tr>
<td>100SWD24B1N</td>
<td>OPA 100 24 Slot Chassis 1MM N Power</td>
</tr>
<tr>
<td>100SWEQ7CN1</td>
<td>OPA 100 Edge Management Card</td>
</tr>
<tr>
<td>100SWDMGTSH</td>
<td>OPA 100 Director Management Module</td>
</tr>
<tr>
<td>100SWE48QF2</td>
<td>OPA 100 1U 48 Port 2PS Std-Air Managed</td>
</tr>
<tr>
<td>100SWE48QFH</td>
<td>OPA 100 1U 48 Port HS Std-Air Managed</td>
</tr>
<tr>
<td>100SWE48QFC</td>
<td>OPA 100 1U 48 Port HS Std-Air Q7 Chassis</td>
</tr>
</tbody>
</table>

1.8 Installation Requirements

1.8.1 Best Practices

- Intel recommends that users update to the latest versions of Intel® Omni-Path firmware and software to obtain the most recent functional and security updates.
- To improve security, the administrator should log out users and disable multi-user logins prior to performing provisioning and similar tasks.

1.8.2 Installation Instructions

For installation details, refer to the Intel® Omni-Path Fabric Switches Hardware Installation Guide.

Download the standalone BIOS and Board Controller Firmware from an Intel web page or other Intel secured location using the following procedures.


   NOTES
   You can manually navigate to the software using the following steps:
   a. Using a web browser, type downloadcenter.intel.com in the address field and press Enter.
   b. In the "Search downloads" field, type Omni-Path and press Enter.

2. In the Description list, select the "Intel® Omni-Path Q7 BIOS and Board Controller Firmware" for the version you want to install.

   NOTE
   The latest version of each type of each download type is showing in the list. To show previous versions, select "Show more" at the bottom of the list.
3. In the "Available Downloads" list, select the files you need.
4. Review the Intel Software License Agreement.
5. Click "I accept the terms in the license agreement."
6. Save the download to your hard drive.

Important Information for Q7 BIOS and Board Controller Firmware Update

Before Getting Started
- Ensure that the Q7 unit being updated is a QA3E. This unit can be found in either a managed Edge switch or a Director Class switch management module.
- The Q7 update has two parts; board controller firmware (BCFW) and BIOS.
- Two separate files are used to perform the update
  - The update files are bcfw: CGBCP429.q7.spkg for the firmware update and bios: QA3ER962.q7.spkg for the BIOS update
  - The BCFW and BIOS update requires switch firmware version 10.7 (or newer)

Prior to Upgrading
Make sure that the subnet manager (SM) is not running on the switch:
- Execute the CLI command smcontrol to ensure that the embedded subnet manager (ESM) is not running on the switch. For example:
  Edge-> smControl
  Subnet manager is not started.
- Execute the CLI command who to ensure that no other CLI sessions are running during the update.

1.9 Product Constraints
None.

1.10 Product Limitations
This release has the following product limitations:
None.
2.0 Issues

This section lists the resolved and open issues in the Intel® Omni-Path Q7 BIOS.

2.1 Resolved Issues

2.1.1 Issues Resolved in this Release

The following table lists issues that are resolved in this release.

<table>
<thead>
<tr>
<th>ID</th>
<th>Description</th>
<th>Resolved in Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>140389</td>
<td>Intel® Omni-Path Qseven® (Q7) BIOS and Board Controller Firmware update addresses the impact to Omni-Path Managed Switches from the Intel IOTG Atom® Processor E3800 Series Erratum VLI89.</td>
<td>10.7</td>
</tr>
</tbody>
</table>

2.2 Open Issues