Contents

1.0 Overview of the Release..............................................................................................................5
  1.1 Audience.............................................................................................................................5
  1.2 Document Versions.............................................................................................................5
  1.3 Software License Agreement.............................................................................................6
  1.4 If You Need Help...............................................................................................................6
  1.5 Supported Features.........................................................................................................6
  1.6 Firmware Files................................................................................................................6
  1.7 Intel Hardware................................................................................................................6
  1.8 Installation Requirements...............................................................................................7
    1.8.1 Best Practices..........................................................................................................7
    1.8.2 Installation Instructions.............................................................................................7
  1.9 Product Constraints.......................................................................................................8
  1.10 Product Limitations.....................................................................................................8

2.0 Issues......................................................................................................................................9
  2.1 Resolved Issues..............................................................................................................9
    2.1.1 Issues Resolved in this Release................................................................................9
  2.2 Open Issues...................................................................................................................9
## Tables

1. Supported Document Versions ................................................................. 5
2. Firmware Files ......................................................................................... 6
3. Supported Hardware .............................................................................. 7
1.0 Overview of the Release

This document provides a brief overview of the changes introduced into the Intel® Omni-Path Firmware Tools (FW Tools) by this release. Intel® Omni-Path FW Tools 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>
<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>6.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Setup Guide</td>
<td>J27600</td>
<td>10.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches Hardware Installation Guide</td>
<td>H76456</td>
<td>9.0</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>13.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches GUI User Guide</td>
<td>H76457</td>
<td>10.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Switches Command Line Interface Reference Guide</td>
<td>H76458</td>
<td>10.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Suite FastFabric User Guide</td>
<td>H76469</td>
<td>13.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Suite Fabric Manager User Guide</td>
<td>H76468</td>
<td>12.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Suite Fabric Manager GUI User Guide</td>
<td>H76471</td>
<td>12.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Host Software User Guide</td>
<td>H76470</td>
<td>13.0</td>
</tr>
<tr>
<td>Intel® Performance Scaled Messaging 2 (PSM2) Programmer’s Guide</td>
<td>H76473</td>
<td>12.0</td>
</tr>
<tr>
<td>Intel® Omni-Path Fabric Performance Tuning User Guide</td>
<td>H93143</td>
<td>15.0</td>
</tr>
<tr>
<td>Intel® Omni-Path IP and LNet Router Design Guide</td>
<td>H99668</td>
<td>8.0</td>
</tr>
</tbody>
</table>

(Old title: Intel® Omni-Path IP and Storage Router Design Guide)

continued...
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.

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.

Supported Features

- The list of supported hardware is in Table 3 on page 7
- Contains tools to manage and update UEFI and TMM firmware
- New packaging: the Firmware Tools file is now delivered in a single RPM that is compatible with all supported operating systems

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>Firmware Tools</td>
<td>hfi1-firmware-tools-10.9.2.0-3.x86_64.rpm</td>
<td>10.9.2.0.3</td>
</tr>
</tbody>
</table>

Intel Hardware

The following table lists the Intel hardware supported in this release. The table does not include OEM-specific hardware, such as custom adapters and switches.
NOTE
The Intel® PSM2 implementation has a limit of four (4) HFIs.

Table 3. Supported Hardware

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel® Xeon® Processor E5-2600 v3 product family</td>
<td>Haswell CPU-based servers</td>
</tr>
<tr>
<td>Intel® Xeon® Processor E5-2600 v4 product family</td>
<td>Broadwell CPU-based servers</td>
</tr>
<tr>
<td>Intel® Xeon® Scalable Processors</td>
<td>Skylake CPU-based servers</td>
</tr>
<tr>
<td>Next Generation Intel® Xeon® Scalable Processors</td>
<td>Cascade Lake CPU-based servers</td>
</tr>
<tr>
<td>Intel® Xeon Phi™ x200 Product Family</td>
<td>Knights Landing CPU-based servers</td>
</tr>
<tr>
<td>Intel® Xeon Phi™ 72x5 Processor Family</td>
<td>Knights Mill CPU-based servers</td>
</tr>
<tr>
<td>Intel® Omni-Path Host Fabric Interface 100HFA016 (x16)</td>
<td>Single Port Host Fabric Interface (HFI)</td>
</tr>
<tr>
<td>Intel® Omni-Path Host Fabric Interface 100HFA018 (x8)</td>
<td>Single Port Host Fabric Interface (HFI)</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 Software Installation Guide.

1.8.2.1 Download the Firmware

Download the firmware rpms 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 Host Fabric Interface Platform Firmware file (i.e., UEFI, TMM or FW Tools) for the version you want to install.
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.

1.8.2.2 Installing and Upgrading rpms
This section provides information for installing or upgrading firmware rpms.
- To install the rpms, use `rpm -ivh <rpm name>`.
- To upgrade the rpms, use `rpm -Uvh <rpm name>`.

Important Information for Firmware Tools
- When trying to install `hfi1-firmware-tools.rpm` on OPA-IFS prior to V10.7, the installation fails due to an existing version of these firmware tools owned by other rpms.

To resolve this issue, you can safely force the installation of the rpm using the following command:

```
rpm -ivh --force hfi1-firmware-tools-<version>.rpm
```

- When trying to install a pre-10.7 version of OPA-IFS on systems where the `hfi1-firmware-tools.rpm` is already installed, the `hfi1-diagtools-sw` and `opa-basic-tools` will fail to install due to existing versions owned by the `hfi1-firmware-tools`.

To resolve this issue, you can
  - Uninstall the existing `hfi1-firmware-tools.rpm` prior to the OPA-IFS installation.
  - If desired, you can safely force the installation of the rpm using the following command:

```
rpm -ivh --force hfi1-firmware-tools-<version>.rpm
```

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 FW Tools.

2.1 Resolved Issues

2.1.1 Issues Resolved in this Release
None.

2.2 Open Issues
None.