

Intel[®] True Scale Fabric Switches 12000 Series

Release Notes

July 2015



No license (express or implied, by estoppel or otherwise) to any intellectual property rights is granted by this document.

Intel disclaims all express and implied warranties, including without limitation, the implied warranties of merchantability, fitness for a particular purpose, and non-infringement, as well as any warranty arising from course of performance, course of dealing, or usage in trade.

This document contains information on products, services and/or processes in development. All information provided here is subject to change without notice. Contact your Intel representative to obtain the latest forecast, schedule, specifications and roadmaps.

The products and services described may contain defects or errors which may cause deviations from published specifications.

You may not use or facilitate the use of this document in connection with any infringement or other legal analysis concerning Intel products described herein. You agree to grant Intel a non-exclusive, royalty-free license to any patent claim thereafter drafted which includes subject matter disclosed herein.

Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or by visiting: <http://www.intel.com/design/literature.htm>

Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries.

*Other names and brands may be claimed as the property of others.

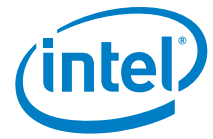
Copyright © 2015, Intel Corporation. All rights reserved.



Contents

1.0	Overview of the Release	7
1.1	Introduction	7
1.2	Audience	7
1.3	If You Need Help	7
1.4	New Features and Enhancements	7
1.5	Installation Requirements	7
1.6	Changes to Hardware Support	7
1.7	Changes to Industry Standards Compliance	8
1.8	Miscellaneous	8
1.9	Documentation	9
2.0	Bug Fixes	10
2.1	Known Issues	11





Tables

1-1 Related Documentation for this Release	9
2-1 Resolved Issues	10
2-2 Open Issues	11





1.0 Overview of the Release

1.1 Introduction

These Release Notes provide a brief overview of the changes introduced into the True Scale Fabric Switch 12000 for this release. References to more detailed information are provided where necessary. The information contained in this document is intended for supplemental use only; it should be used in conjunction with the documentation provided for each component.

These Release Notes list the new features, system issues closed since the previous release, as well as any known issues.

1.2 Audience

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

1.3 If You Need Help

If you need assistance while working with the True Scale Fabric Switch 12000, contact your Intel® approved reseller or Intel® True Scale Technical Support:

- By E-mail:
ibsupport@intel.com
- On the Support tab at web site:
<http://www.intel.com/truescale>

For OEM-specific server platforms supported by this release, contact your OEM.

1.4 New Features and Enhancements

The following new features and enhancements have been made between Release 7.3.1.0.10 and 7.4.0.0.20:

- None

1.5 Installation Requirements

There are no special or release-specific installation requirements for this release.

1.6 Changes to Hardware Support

There are no release-specific changes to the hardware supported for this release.



1.7 Changes to Industry Standards Compliance

There are no changes to the industry standards for this release.

1.8 Miscellaneous

- Different chassis types require different time intervals to fully reboot. The amount of time it takes a switch to reboot is dependent upon several factors, including:
 - The type of reboot
 - The number of leaves, spines and management modules in the chassis.
 - Whether or not the switch chip firmware is being updated as a result of the reboot.
- Below are the maximum times that a chassis will take to reboot. In your environment you might see reboot times much less than these:
 - 12200/12300 - 120 seconds
 - 12800-040 - 220 seconds
 - 12800-120 - 290 seconds
 - 12800-180 - 350 seconds
 - 12800-360 - 630 seconds

At any point during the reboot, you can point a web browser to the chassis IP address, or telnet/ssh to the chassis IP address to see if the reboot has completed.

- The embedded version of the Intel[®] Fabric Manager supports a maximum of 500 nodes.
- Intel[®] products will auto-negotiate with devices that utilize IBTA-compliant auto-negotiation.
- When attaching Intel[®] products to a third-party device, the bit error rate is optimized if the third-party device utilizes attenuation-based tuning.
- For most configurations, using the default MTU size of 2K is recommended.
- The True Scale Fabric Switch 12000 Series supports the following web browsers:
 - Windows* Internet Explorer version 9.0 (for Windows 7)
 - Windows Internet Explorer version 10.0 (for Windows 8)
 - Windows Internet Explorer version 11.0.9 (for Windows 8.1)
 - Mozilla Firefox* latest version (for Windows XP and Windows 7)
 - Mozilla Firefox version 10 (for RHEL 6.4 and 6.5, and SLES11 SP2)
 - Mozilla Firefox version 17 (for SLES11 SP3)
 - Mozilla Firefox version 31 (for RHEL 6.6 and 7, CentOS* 6.6 and 7.0, Scientific Linux* 6.6 and 7.1, Windows 7 and 8.1)
 - Mozilla Firefox version 31.1.0 (for SLES 12)
 - Mozilla Firefox version 31.4.0 (for RHEL 7.1)
 - Mozilla Firefox version 37.02 (for Windows 8.1)



1.9 Documentation

Table 1-1 lists the end-user documentation for this release. All related documentation is available on the Intel® download site.

Documentation for Intel® Partners is available at the vendors web site.

Table 1-1. Related Documentation for this Release

Document Title
Intel® Hardware Documents
<i>Intel® True Scale 12000 Hardware Installation Guide</i>
<i>Intel® True Scale 12000 Users Guide</i>
<i>Intel® True Scale 12000 CLI Reference Guide</i>
<i>Intel® Adapter Hardware Installation Guide</i>
Intel® OFED+ Documents
<i>Intel® True Scale Fabric Software Installation Guide</i>
<i>Intel® OFED+ Host Software User Guide</i>
<i>Intel® OFED+ Host Software Release Notes</i>
Intel® IFS Documents
<i>Intel® True Scale Fabric Suite FastFabric User Guide</i>
<i>Intel® True Scale Fabric Suite Fabric Manager User Guide</i>
<i>Intel® True Scale Fabric Suite FastFabric Command Line Interface Reference Guide</i>
<i>Intel® True Scale Fabric Suite Software Release Notes</i>
Intel® Fabric Viewer Documents
<i>Intel® True Scale Fabric Suite Fabric Viewer Online Help</i>
<i>Intel® True Scale Fabric Suite Fabric Viewer Release Notes</i>



2.0 Bug Fixes

Table 2-1 lists the fixes that have been made to the True Scale Fabric Switch 12000:

Table 2-1. Resolved Issues

Release	Product	Description
7.2.1.1.16	IB Management Card	Adding a new SNMP Target Address with an Address Name that is 14 characters or longer and then rebooting no longer causes the switch to malfunction.
	S20	Corrected error recovery mechanisms.



2.1 Known Issues

Table 2-2 lists the open issues for the current release.

Table 2-2. Open Issues

Product/Component	Description	Workaround
Chassis Hardware	Following a hot swap of a management module (MM) (with the part number 220055-001-C or earlier), the ATTN LED will occasionally flash once and the module does not boot.	Remove and reinsert the management module.
Chassis Viewer GUI	When using a web browser on a Linux* system and rebooting the switch, only two digits of the countdown time are displayed. If the countdown time is greater than 100, the ones column is not displayed, causing the countdown to appear to be proceeding very slowly (that is, decreasing 1 second every 10 seconds).	Once the time remaining reaches 99 seconds, the counter will be displayed correctly.
Chassis Hardware	Sometimes when inserting fiber optic cables (with the following part numbers) the warning message "QSFP fault condition" is logged in the switch log. CBL2-1000301-3 - 3.0M Fiber QSFP to QSFP. CBL2-1001001-3 - 10M Fiber QSFP to QSFP. CBL2-1003001-3 - 30M Fiber QSFP to QSFP.	This message can be safely ignored.
Chassis Viewer GUI	In a dual-management module (MM) setup, when rebooting either a slave or master MM using the Chassis Viewer GUI, the GUI takes much longer than normal to refresh itself.	Rather than wait for the GUI countdown timer to complete, 100 seconds after rebooting the MM enter the chassis URL into the browser address bar.
Management Software	If updating from a previous release, and an SSH key with a length of greater than 511 bytes is present in the configuration, the firmware update will not be successful.	Either of the following two workaround options will avoid the issue: 1) As the switch is booting, interrupt the boot process and issue a factory 1 command from the serial port of the switch. For assistance using the factory 1 command, please contact Support. 2) Before booting the switch, use the CLI command sshKey rem to remove each of the SSH keys that have a length of greater than 511 bytes. For detailed CLI information, refer to the <i>Intel® True Scale 12000 CLI Reference Guide</i> .
Switch CLI	Cable lengths of 0.5 meters are identified as 1 meter.	None.