



True Scale Fabric Suite Fabric Viewer

Release Notes

October 2013



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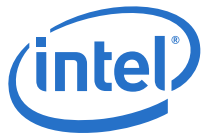
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1.0 Overview of the Release

1.1 Introduction

These Release Notes provide a brief overview of the changes introduced into the Intel® True Scale Fabric Suite Fabric Viewer by 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 of the release, as well as the system issues that were closed in the development of Release 7.2.1.1.31.

1.2 Audience

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

1.3 If You Need Help

If you need assistance while working with Fabric Viewer, 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/infiniband>

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

1.4 New Features and Enhancements

The new features and enhancements added since Release 7.1 and the two previous major/minor releases for the Fabric Viewer are listed below.

1.4.1 Release 7.2 Features

- Support for Windows 8.
- Branding for Intel has been incorporated in this release.

1.4.2 Release 7.1 Features

- Mozilla Firefox 3.5.9 (for SLES 11 SP1)
- Mozilla Firefox 3.6 and 8 are supported for all supported Linux distributions.
- Mozilla Firefox 9 is supported for all supported Linux distributions except SLES 10 SP4.
- Mozilla Firefox 10 is supported for SLES 11 SP2.

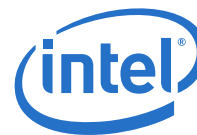
1.4.3 Release 7.0.1 Features

- 64-bit counter support has been added to the Fabric Viewer.



1.4.4 Release 7.0 Features

- The new Dashboard view is added for this release. The Dashboard view is the default view on the right-hand side of the window when a Subnet is connected in Fabric Viewer. The Dashboard view is available for each subnet that is connected. The Dashboard view is integrated into the existing Fabric Viewer environment, and presents the following in real time:
 - Fabric wide low, average, and high bandwidth between links
 - Fabric wide low, average, and high packet rate between links
 - Fabric wide congestion, routing, signal integrity, sma congestion, and security errors on worst ports
 - Statistics Summary panel is a list of statistics retrieved from the image summary information
- The Fabric Viewer applet is the Web browser based Fabric Viewer. The Fabric Viewer applet is only available when choosing to install the Intel® True Scale Fabric Suite Software (IFS) kit into a cluster being provisioned by Platform Cluster Manager (PCM), the cluster management product from Platform Computing. When the IFS kit is installed into the cluster, the applet is integrated with the PCM's GUI. To launch the Fabric Viewer applet, the PCM GUI must be launched in a browser. Once the PCM GUI is loaded, the user can click on the Common Tasks button and select the Fabric Viewer option from the drop down menu. The Fabric Viewer is launched in a new browser window or tab. The Fabric Viewer applet is used exactly the same as the Fabric Viewer stand-alone application.



1.5 Operating Environments Supported

The Release 7.2 version of Fabric Viewer allows for the Operating Systems listed in [Table 1](#).

Table 1. Operating Environments Supported

Operating System	Update/ SP	Version
Red Hat Enterprise Linux (RHEL) 5 X86_64 (AMD Opteron and Intel EM64T)	Update 8	2.6.18-308.el5.x86_64
	Update 9	2.6.18-348.el5.x86_64
RHEL 6 X86_64 (AMD Opteron and Intel EM64T)	Update 2	2.6.32-220.el6.x86_64
	Update 3	2.6.32-279.el6.x86_64
	Update 4	2.6.32-358.el6.x86_64
SLES 11 X86_64 (AMD Opteron and Intel EM64T)	SP2	3.0.13-0.27-default
	SP3	3.0.76-0.11-default
Community Enterprise Operating System (CentOS) X86_64 (AMD Opteron and Intel EM64T)	Update 5.8	2.6.18-308.el5.x86_64
	Update 5.9	2.6.18-348.el5.x86_64
Community Enterprise Operating System (CentOS) X86_64 (AMD Opteron and Intel EM64T)	Update 6.2	2.6.32-220.el6.x86_64
	Update 6.3	2.6.32-279.el6.x86_64
	Update 6.4	2.6.32-358.el6.x86_64
Scientific Linux X86_64	Update 5.8	2.6.18-308.1.1.el5.x86_64
	Update 5.9	2.6.18-348.el5.x86_64
Scientific Linux X86_64	Update 6.2	2.6.32-220.el6.x86_64
	Update 6.3	2.6.32-279.el6.x86_64
	Update 6.4	2.6.32-358.el6.x86_64
StackIQ Cluster Manager (Rocks+) HPC 6.1	RHEL 6.3	2.6.32-279.el6.x86_64
	CentOS 6.3	2.6.32-279.el6.x86_64
Platform HPC-4.1.1	RHEL 6.4	2.6.32-358.el6.x86_64

CPU Model of Linux kernel can be identified by `uname -m` and `/proc/cpuinfo` shown in [Table 2](#)

Table 2. CPU Model of Linux Kernel

Model	uname	/proc/cpuinfo
EM64T	x86_64	Intel CPUs
Opteron*	x86_64	AMD CPUs

Note: Other combinations (such as i586 uname) are not currently supported.

1.6 Web Browsers Supported

The following supported web browsers can be used to access the Fabric Viewer applet in this release:

- Windows Internet Explorer 9.0 (for Windows 7)
- Windows Internet Explorer 10.0 (for Windows 8)
- Mozilla Firefox 3.6 (for all supported Linux OSs)



- Mozilla Firefox 10 (for all supported Linux OSs)
- Mozilla Firefox 17 (for SLES 11 SP3, CentOS 6.4, and Scientific Linux 6.4)

1.7 Hardware Supported

Table 3 list the hardware supported in this release.

Table 3. Hardware Supported

HCA's
QLE7340
QLE7342
QME7342
QME7362
QMH7342
MHQH29-*
MHQH19-*
MHQH19B-XTR
MHQH29B-XTR
MHQH29B-XSR
MCX354A-QCAT
MCX353A-QCAT
NC543i (HP SL390 G7 in-built InfiniBand Host Channel Adapter)
CX-3 LOM down QDR
46M2199
46M2203

1.8 Installation Requirements

There are not any special or release-specific installation requirements for this release.

1.9 Changes for this Release

The following sections describe the changes that have been made to the Intel® True Scale Fabric Suite Fabric Viewer between versions 7.1.1.0.25 and 7.2.1.1.31, including the following releases:

- 7.1.1.0.25
- 7.2.1.1.31

For detailed information about any of the previous releases listed, refer to the Release Notes from that specific version.

1.9.1 Changes to Hardware Support

Table 4 shows the new hardware supported for the releases listed.

**Table 4. Changes to Hardware Support**

Release	Supported Hardware Added
7.1.1.0.25	None
7.2.1.1.31	None

1.9.2 Changes to Operating System Support

Table 5 shows the new operating systems supported for the releases listed.

Table 5. Changes to Operating System Support

Release	Supported Operating System Added
7.1.1.0.25	RHEL 5 X86_64 (AMD Opteron and Intel EM64T): <ul style="list-style-type: none"> (Update 8) 2.6.18-308.el5 SLES 11 X86_64 (AMD Opteron and Intel EM64T) <ul style="list-style-type: none"> (SP2) 3.0.13-0.27-default Platform Cluster Manager 3.1 Dell Edition: <ul style="list-style-type: none"> (RHEL 6.2) 2.6.32-220.el6.x86_64
7.2.1.1.31	RHEL 6 X86_64 (AMD Opteron and Intel EM64T): <ul style="list-style-type: none"> (Update 4) 2.6.32-358.el6.x86_64 SLES 11 X86_64 (AMD Opteron and Intel EM64T) <ul style="list-style-type: none"> (SP3) 3.0.76-0.11-default

1.9.3 Changes to Software Components

Table 6 shows the new software components supported for the releases listed.

Table 6. Changes to Software Component Support

Release	Supported Software Added or Changed
7.1.1.0.25	Intel® True Scale Fabric Suite Fabric Viewer Software Intel® True Scale Fabric Suite Fabric Viewer Applet Software
7.2.1.1.31	Intel® True Scale Fabric Suite Fabric Viewer Software Intel® True Scale Fabric Suite Fabric Viewer Applet Software

1.9.4 Changes to Industry Standards Compliance

None.

1.10 Product Constraints

The following is a list of product constraints for this release:

- None

1.11 Product Limitations

There are no product limitations for this release.

1.12 Other Information

There is no "need to know" information for this release.



1.13 Documentation

Table 7 lists the Release 7.2 related documentation. All related documentation is available on the Intel® download site.

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

Table 7. Related Documentation for this Release

Document Title	Document Number	Revision
Intel® Hardware Documents		
<i>Intel® True Scale Fabric Switches 12000 Series Hardware Installation Guide</i>	G91928	001US
<i>Intel® True Scale Fabric Switches 12000 Series Users Guide</i>	G91930	001US
<i>Intel® True Scale Fabric Switches 12000 Series CLI Reference Guide</i>	G91931	001US
<i>Intel® True Scale Fabric Adapter Hardware Installation Guide</i>	G91929	001US
Intel® OFED+ Documents		
<i>Intel® True Scale Fabric Software Installation Guide</i>	G91921	002US
<i>Intel® True Scale Fabric OFED+ Host Software User Guide</i>	G91902	001US
<i>Intel® True Scale Fabric OFED+ Host Software Release Notes</i>	H27570	001US
Intel® IFS Documents		
<i>Intel® True Scale Fabric Suite FastFabric User Guide</i>	G91916	001US
<i>Intel® True Scale Fabric Suite Fabric Manager User Guide</i>	G91918	001US
<i>Intel® True Scale Fabric Suite FastFabric Command Line Interface Reference Guide</i>	G91904	001US
<i>Intel® True Scale Fabric Suite Software Release Notes</i>	H27571	001US
Intel® Fabric Viewer Documents		
<i>Intel® True Scale Fabric Suite Fabric Viewer Online Help</i>	N/A	N/A
<i>Intel® True Scale Fabric Suite Fabric Viewer Release Notes</i>	G91934	001US



2.0 System Issues for Release 7.2

2.1 Introduction

This section provides a list of the resolved Issues in the Intel® True Scale Fabric Suite Fabric Viewer that were verified by this release. It also lists the open Issues with a description and workaround for each.

2.2 Resolved Issues in this Release

Table 8 is a list of issues that are resolved in this and the previous two releases.

Table 8. Resolved Issues

Product	Release	Description
IFS/ Fabric Viewer	7.0.1.0.38	A problem with the performance data not being transmitted to the view graphs to be populated has been fixed.
IFS/ Fabric Viewer	7.0.1.0.38	An issue launching the Fabric Viewer Applet from Platform HPC using the default RHEL 5.6 and SLES11 browsers has been resolved.
IFS/ Fabric Viewer	7.1.0.0.24	Connecting multiple times to subnet of 1150 nodes or more no longer generates an OutOfMemoryError: Java heap error .
IFS/ Fabric Viewer	7.1.0.0.24	The auto-connect option is now working with FV applet and standalone application. Connection hangs no longer occur.
IFS/ Fabric Viewer	7.1.0.0.24	View Port Statistics is now displaying all of the port counters correctly and no error messages are being seen.
IFS/ Fabric Viewer	7.1.0.0.24	In the View Performance window, when selecting to view all graphs, the graphs now display the y-axis correctly.
IFS/ Fabric Viewer	7.2.1.1.31	A Digital Signature error no longer appears when launching the Fabric Viewer applet through the Platform HPC GUI.



2.3 Known Issues

The subsections below catalog the known open issues for the release as well as a description and a workaround by component.

2.3.1 Severity

This document provides a level of severity for each issue listed. The levels are:

- **Critical** – Could result in a service outage
- **Major** – Could degrade system performance
- **Minor** – Could cause minimal impact to ongoing operations
- **None** – No operational impact



2.3.2 Open Issues Table

Table 9 is the list of open issues for Release 7.2. The table is sorted by Severity then Product.

Table 9. Open Issues

Product/ Component	Severity	Description	Workaround
IFS/ Fabric Viewer	Major	Cannot edit multiple Intel® True Scale Fabric Suite Fabric Manager configurations from one Edit Virtual Fabric window.	1) Add a subnet in Fabric Viewer for each Fabric Manager whose configuration they need to edit. 2) Connect to each subnet, open the Edit Virtual Fabric dialog and make the changes to each Fabric Manager configuration.
IFS/ Fabric Viewer	None	When a Fabric Manager failover occurs, the Fabric Viewer does not connect to the slave Fabric Manager. A popup message stating "Connection to FE lost" appears and the subnet is disconnected.	Make sure the Intel® True Scale Fabric Suite Fabric Manager is running and reconnect it to the subnet.
IFS/ Fabric Viewer	None	When the Fabric Viewer is connected to a slave Fabric Manager on the fabric the following error message appears The host being connected to is NOT the master SM in the fabric When the Fabric Viewer is not connected to the master Fabric Manager, changes made by the Fabric Viewer in the slave Fabric Manager will not take affect fabric-wide.	Reconnect the Fabric Viewer to the Master Fabric Manager.
IFS/ Fabric Viewer	None	With the 7.0 release, when using the Fabric Viewer applet on a client machine, the user can store configuration information, user preferences and event rules information in the user home directory on the client machine that is being used at that time instead of on the Platform HPC node. This information can not be shared with other workstations and therefore the user has to add everything again if they are using a different workstation	To use another workstation, copy all of the configuration related files stored in the user home directory from the client machine that was being used, and paste it on the workstation that will be used.
IB Fabric Manager/ Embedded SM	None	Fabric Viewer does not recognize when an InfiniBand single link becomes a dual link, or when dual link becomes a single link.	Refresh Fabric Viewer to get the current topology information.
IFS/ Fabric Viewer	Major	In the View Performance window, the transmit and receive packet numbers do not match the transmit and receive packet numbers in the FastFabric iba_top application.	The Fabric Manager's PM sweep rate must be adjusted to match the internal graphing rate of the Fabric Viewer. To accomplish this set the qlogic_fm.xml file's Pm.SweepInterval parameter to 3 seconds.



Table 9. Open Issues (Continued)

Product/ Component	Severity	Description	Workaround
IFS/ Fabric Viewer	Major	When performing a Virtual Fabric operation and saving the changes, a java error may occur when using the Fabric Viewer applet in a FireFox 5.0 web browser.	Use FireFox 3.6.
IFS/ Fabric Viewer	Minor	Fabric Viewer shows Link Speed Supported as 0 on the QMH7342 switch.	To see the correct link speed supported, right click the node and select Manage Chassis , select Port Stats , then select IB Port Stats from the Chassis context menu.
IFS/ Fabric Viewer	Minor	If Mozilla Firefox is not set as your default browser on Linux machines, the manage chassis option will not work from Fabric Viewer.	Right click the switch that you want to manage and select View Properties . The General tab will have an IP address for that switch. Copy and paste the address into your web browser.

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