

# HP Cluster Platform

Cisco SFS 7000D, 7012D, and 7024D InfiniBand  
Interconnects

Read This First: Documentation Roadmap



This document describes how to access the documentation that you will need to maintain and troubleshoot a Cisco InfiniBand interconnect.

Part number: AC-CIBRM-1F

Third Edition: August 2008

# Overview

The documentation for the Cisco® SFS 7000D, 7012D, and 7024 InfiniBand™ interconnects and related Cluster Platform documentation referenced in this guide is available from the [docs.hp](http://www.docs.hp.com) and [Cisco](http://www.cisco.com) websites. You can link directly to any of the documentation here to assist you in maintaining your Cluster Platform.

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**NOTE:** Before you begin any system operations, go to the following website and download the latest documentation updates:

<http://www.docs.hp.com/en/highperfcomp.html> (*High Performance Computing*)

If your hardware configuration contains HP BladeSystems and enclosures, important updates are available from this site.

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# Cisco SFS 7000D, 7012D, and 7024D InfiniBand Interconnect Documentation

The Cisco SFS 7000D, 7012D, and 7024D InfiniBand interconnects are modular systems that you can use to create large, single-system grid/cluster fabrics, or you can use them as building blocks for larger fabrics. These interconnects are designed to maximize performance, streamline operations, and to ensure uptime by providing full hardware and software reliability, availability, and serviceability (RAS) features.

Although these Cisco interconnects and cables were installed by an HP service representative, it is assumed that you are familiar with the Cisco InfiniBand Interconnects and have the knowledge necessary to maintain and troubleshoot the Cisco technology that is used in an HP Cluster Platform solution. This document contains links to the documentation that you will need to troubleshoot and maintain the Cisco interconnects.

All of the documentation referenced in this document is currently available on the [docs.hp.com](http://docs.hp.com) and [Cisco](http://www.cisco.com) websites. If you have any comments about this HP document, please send them to: <http://docs.hp.com/en/feedback.html>

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**NOTE:** Before you begin any system operations, go to the High Performance Computing website to download the latest documentation updates:

<http://www.docs.hp.com/en/highpercomp.html>

If your hardware configuration contains HP BladeSystems and enclosures, important updates are available at the preceding site.

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**NOTE:** For technical support and updates, contact your HP representative rather than using the Cisco Technical Assistance Center (TAC) referenced in the Cisco documentation.

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## Revision History

Revision Date	Changes
August 2008	Added new release notes for OFED Release 1.3 and link to new version of the supported firmware support matrix released in May 2008.
May 2008	Changed document title to specify interconnect names.
March 2008	Added: <ul style="list-style-type: none"><li>Revised outdated links throughout</li><li>Revised versions of the <i>7012 Hardware Installation Guide</i>, <i>7012 InfiniBand Server Switch Hardware User Guide</i>, <i>SFS 7000 Series Product Family Chassis Manager User Guide</i>, <i>SFS 7000 Series Product Family Element Manager User Guide</i>, <i>7024 InfiniBand Server Switch Hardware Users Guide</i>, and <i>7024 InfiniBand Server Switch Installation and Configuration Note</i></li></ul>
January 2008	First edition

# Cisco SFS 7000D InfiniBand Interconnect Documentation

The Cisco SFS 7000D InfiniBand Interconnect and cables were installed by an HP service representative. Go only to the HP Web site for updates, technical assistance, and support.

The following documents are provided for your reference and contain information necessary for you to perform certain maintenance and troubleshooting procedures for the Cisco SFS 7000D InfiniBand Interconnect. Chapters that contain maintenance and troubleshooting procedures are indicated in **bold text**.

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## Title/Contents

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[Cisco SFS 7000D InfiniBand Server Switch](#) (January 2008)

Web page with general switch information and links to product literature and data sheets.

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[Cisco SFS 7000P and SFS 7000D InfiniBand Server Switches Hardware Installation Guide, Release 2.9.0](#) (updated March 2007)

Chapters:

- Product Overview
  - Preparation for Installation
  - Installing the Switches
  - **Installing Field Replaceable Units**
  - **Managing the Switch**
  - **Hardware Diagnostic Tests**
- 

[Cisco SFS 7000D InfiniBand Server Switch Installation and Configuration Note, Release 2.9.0](#) (January 2007)

Sections:

- Safety Overview
  - Parts List
  - Required Tools
  - Installation Guidelines
  - Installing the Cisco SFS 7000D Server Switch
  - Connecting and Removing InfiniBand Cables
  - Configuring the Cisco SFS 7000D Server Switch
  - Connecting the 10/100 Ethernet Management Port
  - **Troubleshooting**
  - Translated Safety Warnings
  - Related Documentation
  - Obtaining Documentation
  - Documentation Feedback
  - Cisco Product Security Overview
  - Product Alerts and Field Notices
  - Obtaining Technical Assistance
  - Obtaining Additional Publications and Information
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[Cisco SFS InfiniBand Redundancy Configuration Guide Release 2.10](#) (December 2007)  
Provides redundancy configuration information for enterprise solutions containing SFS switches.

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[Cisco SFS 7000 Series Product Family Chassis Manager User Guide Release 2.9.0](#) (February 2008)

Topics include:

- Getting started
  - Chassis tasks
  - Maintenance tasks
  - InfiniBand tasks
  - Ethernet tasks
  - Fibre Channel tasks
- 

[Cisco SFS 7000 Series Product Family Element Manager User Guide Release 2.9.0](#) (February 2008)

Topics include:

- About Element Manager
  - Chassis display tasks
  - Files tasks
  - Edit tasks
  - Maintenance tasks
  - Health tasks
  - Report tasks
  - Various InfiniBand management tasks
  - Ethernet Menu tasks
  - Fibre Channel Menu tasks
  - Help Menu tasks
  - InfiniBand concepts
- 

[Cisco SFS Product Family Command Reference Release 2.9.0](#) (June 2007)

Topics include:

- Using the command-line interface
  - Command groups
  - Commands
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**NOTE:** For technical support and updates, contact your HP representative rather than using the Cisco Technical Support Web site referenced in the Cisco documentation.

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## Cisco SFS 7012D InfiniBand Interconnect Documentation

The Cisco SFS 7012D InfiniBand Interconnect and cables were installed by an HP service representative. Go only to the HP Web site for updates, technical assistance, and support.

The following documents are provided for your reference and contain information necessary for you to perform certain maintenance and troubleshooting procedures for the Cisco SFS 7012 InfiniBand Interconnect. Chapters and appendices that contain maintenance and troubleshooting procedures are indicated in **bold text**.

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### Title/Contents

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[Cisco SFS 7012 InfiniBand Server Switch](#) (January 2008)

Web page with general switch information and links to product literature and data sheets.

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[Cisco SFS 7012 Hardware Installation Guide](#) (January 2007)

Chapters:

- Product Overview
  - Installation
  - **Operations and Administration**
  - Technical Specifications
  - **Command Line Interface**
  - **Troubleshooting**
- 

[Cisco SFS 7012 InfiniBand Server Switch Hardware Users Guide, Release 4.1](#) (January 2008)

Chapters:

- Product Overview
- Installation
- **Operations and Administration**
- Technical Specifications
- **Command Line Interface**

#### **Troubleshooting**

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[Cisco SFS 7012 InfiniBand Server Switch Hardware Users Guide, Release 3.4](#) (February 2007)

Chapters:

- Product Overview
  - Installation
  - **Operations and Administration**
  - Technical Specifications
  - **Command Line Interface**
  - **Troubleshooting**
- 

[Cisco SFS 7012 InfiniBand Server Switch Installation and Configuration Note, Release 4.1](#)

(January 2008)

Describes how to install and configure a Cisco SFS 7012 switch.

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## Title/Contents

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[\*Cisco SFS 7000 Series Product Family Chassis Manager User Guide Release 2.9.0\*](#) (February 2008)

Topics include:

- Getting started
  - Chassis tasks
  - Maintenance tasks
  - InfiniBand tasks
  - Ethernet tasks
  - Fibre Channel tasks
- 

[\*Cisco SFS 7000 Series Product Family Element Manager User Guide Release 2.9.0\*](#) (February 2008)

Topics include:

- About Element Manager
  - Chassis display tasks
  - Files tasks
  - Edit tasks
  - Maintenance tasks
  - Health tasks
  - Report tasks
  - Various InfiniBand management tasks
  - Ethernet Menu tasks
  - Fibre Channel Menu tasks
  - Help Menu tasks
  - InfiniBand concepts
- 

[\*Cisco SFS Product Family Command Reference Release 2.9.0\*](#) (June 2007)

Topics include:

- Using the command-line interface
  - Command groups
  - Commands
- 

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**NOTE:** For technical support and updates, contact your HP representative rather than using the Cisco Technical Support Web site referenced in the Cisco documentation.

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## Cisco SFS 7024D InfiniBand Interconnect Documentation

The Cisco SFS 7024D InfiniBand Interconnect and cables were installed by an HP service representative. Go only to the HP Web site for updates, technical assistance, and support.

The following documents are provided for your reference and contain information necessary for you to perform certain maintenance and troubleshooting procedures for the Cisco SFS 7024 InfiniBand Interconnect. Chapters and appendices that contain maintenance and troubleshooting procedures are indicated in **bold text**.

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### Title/Contents

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[Cisco SFS 7024D InfiniBand Server Switch](#) (January 2008)

Web page with general switch information and links to product literature and data sheets.

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[Cisco SFS 7024 Hardware Installation Guide, Release 3.3](#) (January 2007)

Chapters:

- Product Overview
  - Installation
  - **Operations and Administration**
  - Technical Specifications
  - **Command Line Interface**
  - **Troubleshooting**
- 

[Cisco SFS 7024 InfiniBand Server Switch Hardware Users Guide, Release 4.1](#) (January 2008)

Chapters:

- Product Overview
  - Installation
  - **Operations and Administration**
  - Technical Specifications
  - **Command Line Interface**
  - **Troubleshooting**
- 

[Cisco SFS 7024 InfiniBand Server Switch Hardware Users Guide, Release 3.4](#) (February 2007)

Chapters:

- Product Overview
  - Installation
  - **Operations and Administration**
  - Technical Specifications
  - **Command Line Interface**
  - **Troubleshooting**
- 

[Cisco SFS 7024 InfiniBand Server Switch Installation and Configuration Note, Release 4.1](#)  
(January 2008)

Describes how to install and configure a Cisco SFS 7024 switch.

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[Cisco SFS 7000 Series Product Family Chassis Manager User Guide Release 2.9.0](#) (February 2008)

Topics include:

- Getting started
- Chassis tasks
- Maintenance tasks
- InfiniBand tasks
- Ethernet tasks
- Fibre Channel tasks

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[Cisco SFS 7000 Series Product Family Element Manager User Guide Release 2.9.0](#) (February 2008)

Topics include:

- About Element Manager
- Chassis display tasks
- Files tasks
- Edit tasks
- Maintenance tasks
- Health tasks
- Report tasks
- Various InfiniBand management tasks
- Ethernet Menu tasks
- Fibre Channel Menu tasks
- Help Menu tasks
- InfiniBand concepts

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[Cisco SFS Product Family Command Reference Release 2.9.0](#) (June 2007)

Topics include:

- Using the command-line interface
  - Command groups
  - Commands
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**NOTE:** For technical support and updates, contact your HP representative rather than using the Cisco Technical Support Web site referenced in the Cisco documentation.

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# Cable Management

The following documents describe the cable management and installation procedures for the Cisco SFS 7012 and 7024D InfiniBand interconnects:

- [\*AC070A Cable Management Bracket Installation Guide\*](#)
- [\*AC089A Cable Management Bracket Installation Guide\*](#)

## Related Documentation

The following documentation or websites may be of use in managing your Cluster Platform environment and Voltaire interconnects:

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**Title/Description**

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[Cisco Regulatory Compliance and Safety Information for the Cisco SFS 7000P, SFS 7000D, SFS 7008P, 3013R, and 3504](#) (August 2007)

Describes how to safely work with lasers and contains translated safety warnings, European directives, and regulatory standards compliance, EMC environmental conditions for products installed in the European union, EMC Class A notices and warnings, and other standards-related information.

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[Cisco OpenFabrics Enterprise Distribution InfiniBand Host Drivers User Guide for Linux, Release 1.1](#) (December 2006)

Describes the basics of the OpenFabrics Enterprise Distribution InfiniBand host driver, how to install one, how to configure the driver, and other related topics.

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[Release Notes for Cisco OFED Release 1.3](#) (May 2008)

Describes the features and known issues for the Cisco OpenFabrics Enterprise Distribution InfiniBand Host Drivers 1.3 for Linux.

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[Release Notes for Cisco OFED Release 1.2.5](#) (October 2007)

Describes the features and known issues for the Cisco OpenFabrics Enterprise Distribution InfiniBand Host Drivers 1.2.5 for Linux.

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[Release Notes for Cisco OFED Release 1.2](#) (June 2007)

Describes the features and known issues for the Cisco OpenFabrics Enterprise Distribution InfiniBand Host Drivers 1.2 for Linux.

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[Release Notes for Cisco High-Performance Subnet Manager \(HSM\) Release 1.2.1](#) (February 2008)

Describes features and known issues for HSM Release 1.2.1.

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[Cisco High-Performance Subnet Manager for InfiniBand Server Switches, Release 1.2](#) (August 2007)

Describes the Cisco High-Performance Subnet Manager, how to install it and use it, and also lists and describes the Subnet Manager administrative, configuration, performance monitoring, and show commands.

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[Cisco SFS Product Family Command Reference Release 2.10.0](#) (January 2008)

Explains how to use the command line interface (CLI) and provides a categorized, alphabetical list of the available CLI commands.

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[Cisco SFS Product Family Command Reference, Release 2.9.0](#) (September 2007)

Explains how to use the command line interface (CLI) and provides a categorized, alphabetical list of the available CLI commands.

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**Title/Description**

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[\*Cisco SFS Product Family Chassis Manager User Guide, Release 2.9.0\*](#) (February 2008)  
Describes how to get started with Chassis Manager and how to use it to display and configure a variety of operations.

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[\*Cisco SFS Product Family Element Manager User Guide Release 2.10.0\*](#) (December 2007)  
Describes installing and using the GUI interface of Element Manager.

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[\*Cisco SFS Product Family Element Manager User Guide, Release 2.9.0\*](#) (December 2006)  
Describes how to install and use the GUI interface of Element Manager.

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[\*Cisco SFS InfiniBand Host Drivers User Guide for Linux, Release 3.2.0\*](#) (July 2007)  
Describes the host drivers and how to install and configure them for various protocols.

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[\*Release Notes for Cisco InfiniBand Drivers on HP BladeSystem c-Class\*](#) (January 2007)  
Describes the features and known issues for Cisco InfiniBand drivers on HP BladeSystem c-Class with Cisco InfiniBand products.

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[\*Cisco Supported Firmware Matrix \(May 19, 2008\)\*](#)  
HP documentation describing the minimum firmware versions required for correct operation of the Cisco interconnects that are used with HP Cluster Platform components.

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[\*Cluster Platform Overview\*](#)  
HP manual providing an overview of HP Cluster Platform environments, as well as the HP Storage Works Scalable File Share (SFS) and the HP Scalable Visual Array (SVA).

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[\*Site Preparation Guide\*](#)  
HP manual providing an overview of the HP Cluster Platform hardware and describes how to plan for the receipt and installation of cluster hardware in a dedicated computer facility.

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[\*High Performance Computing website\*](#)  
HP website providing the latest documentation for High Performance Computing hardware and software products (Cluster Platform products, cabling tables, interconnect and firmware information, cable management guides, and SVA).

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[\*Cisco website\*](#)  
See the Cisco website for any SFS-related information not found in this document.

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For the latest information regarding the HP Cluster Platform products, go to:

<http://www.hp.com/techservers>

Contact your local HP sales or support representative if you need additional information.

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