Cisco MDS 9000 Family Storage Management Initiative - Specification (SMI-S) Configuration Note

October 2007, OL-14894-01

The Cisco MDS 9000 Family of multilayer directors and fabric switches provide an industry standard application programming interface (API) using the Storage Management Initiative Specification (SMI-S).

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SMI-S Specifications

The following SMI-S specifications are described:

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Licensing Requirements

Licenses are not required to use the SME-S interface.

SMI-S Upgrades

The embedded agent is part of Cisco MDS 9000 SAN-OS and is upgraded along with the entire Cisco SAN-OS.

HTTP Requirements

HTTP version 1.1 is required.

Device Software

Cisco MDS 9000 SAN-OS Release 3.0(1) and later provide SMI-S support.
Embedded SIM-S Agent Overview

Third party applications can communicate with the embedded SMI server to provide SAN management functionality compatible with SMI-S. The embedded server includes the following standard profiles, subprofiles, and features as defined in SMI-S:

- Service Location Protocol version 2 (SLPv2)
- Server profile
- Indications
- Fabric profile
- Switch profile, including the Blade subprofile and Access Point subprofile
- HTTPS, which uses Secure Socket Layer (SSL)

SMI-S Configuration

SMI-S configuration instructions are included in the Cisco MDS 9000 Family CLI Configuration Guide. For information on the following topics, see the appropriate sections.

- SSL Support—Configuring Added Security on a CIM Server
- Port Information and Configuration—Configuring Interfaces
- User/Password configuration—Configuring Users and Common Roles
- Verification and Troubleshooting—Troubleshooting Your Fabric
- SLP Setup—Not applicable (N/A), because no setup is required

For additional information on SMI-S, refer to the Cisco MDS 9000 Family SMI-S Programming Reference Guide.

For namespace information and usage, refer to the Configuring and Using the CIM Server chapter.
Obtaining Technical Assistance

Cisco Technical Support provides 24-hour-a-day award-winning technical assistance. The Cisco Technical Support & Documentation website on Cisco.com features extensive online support resources. In addition, if you have a valid Cisco service contract, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not have a valid Cisco service contract, contact your Cisco MDS 9000 Family reseller.

Related Documentation

The documentation set for the Cisco MDS 9000 Family includes the following documents.

Release Notes

- Cisco MDS 9000 Family Release Notes for Cisco MDS SAN-OS Releases
- Cisco MDS 9000 Family Release Notes for Storage Services Interface Images
- Cisco MDS 9000 Family Release Notes for Cisco MDS 9000 EPLD Images

Compatibility Information

- Cisco MDS 9000 SAN-OS Hardware and Software Compatibility Information
- Cisco MDS 9000 Family Interoperability Support Matrix
- Cisco MDS Storage Services Module Interoperability Support Matrix
- Cisco MDS SAN-OS Release Compatibility Matrix for Storage Service Interface Images
Related Documentation

Send documentation comments to mdsfeedback-doc@cisco.com

Regulatory Compliance and Safety Information

- Regulatory Compliance and Safety Information for the Cisco MDS 9000 Family

Hardware Installation

- Cisco MDS 9124 Multilayer Fabric Switch Quick Start Guide
- Cisco MDS 9500 Series Hardware Installation Guide
- Cisco MDS 9200 Series Hardware Installation Guide
- Cisco MDS 9100 Series Hardware Installation Guide

Cisco Fabric Manager

- Cisco MDS 9000 Family Fabric Manager Quick Configuration Guide
- Cisco MDS 9000 Family Fabric Manager Configuration Guide
- Cisco MDS 9000 Family Fabric Manager Database Schema
- Cisco MDS 9000 Family Data Mobility Manager Configuration Guide

Command-Line Interface

- Cisco MDS 9000 Family Software Upgrade and Downgrade Guide
- Cisco MDS 9000 Family Storage Services Module Software Installation and Upgrade Guide
- Cisco MDS 9000 Family CLI Quick Configuration Guide
- Cisco MDS 9000 Family CLI Configuration Guide
- Cisco MDS 9000 Family Command Reference
Troubleshooting and Reference

- Cisco MDS 9000 Family Troubleshooting Guide
- Cisco MDS 9000 Family MIB Quick Reference
- Cisco MDS 9000 Family SMI-S Programming Reference
- Cisco MDS 9000 Family System Messages Reference

Installation and Configuration Note

- Cisco MDS 9000 Family SSM Configuration Note
- Cisco MDS 9000 Family Port Analyzer Adapter Installation and Configuration Note
- Cisco 10-Gigabit X2 Transceiver Module Installation Note
- Cisco MDS 9000 Family CWDM Installation Note
- Cisco MDS 9000 Family CWDM Passive Optical System Installation Note

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly What’s New in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:


This document is to be used in conjunction with the documents listed in the Related Documentation section.