New and Changed Information

The table below summarizes the new and changed features for the *Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide*, and tells you where they are documented. If a feature has changed in Release 1.3, a brief description of the change appears in the "Description" column, and that release is shown in the "Changed in Release" column.

Table 1 Documented Features for the Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide

Feature	Description	Changed in Release	Where Documented
All	Updated procedures to remove CLI command references.		
Fabric Manager Switch Tree Change: QoS	Switch->QoS has been moved to Switch->FC->QoS. QoS can only apply to Fibre Channel.	1.3(4)	
Fabric Manager Switch Tree Change: Interfaces	Switch->Interfaces is a new folder which contains: • Port Channels, moved from Switch FC • FC Physical, moved from Switch->FC • FC Logical, moved from Switch->FC • SVC, moved from Switch->FC • Ethernet, gigE and Ether Channels, was previously Switch->IP->Physical Interfaces • Management, mgmt0 and vsan with the ability to create ipfc.	1.3(4)	
Fabric Manager Switch Tree Change: IPFC	Switch->IP->IPFC functionality is now in Switch->Interfaces->Management	1.3(4)	

Table 1 Documented Features for the Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide (continued)

Feature	Description	Changed in Release	Where Documented
Multiple pWWNs to same alias	You can add/associate multiple pWWNs and fWWNs to the same alias name.	1.3(4)	
Quiesce	You can now quiesce/disable a port channel member. This will quiesce a port channel member ISL, and administratively bring down both ports.	1.3(4)	
iSCSI SACK Default	The TCP SACK parameter is enabled by default for iSCSI configurations.	1.3(3)	
Essential Upgrade Prerequisites	Obtaining recommendations based on your current operating environment.	1.3(3)	
iSCSI name restriction	The iSCSI qualified name is restricted to a maximum name length of 223 alphanumeric characters and a minimum length of 16 characters.	1.3(3)	
Rolling upgrades	The Cashing Services Module (CSM) and the IP Storage (IPS) services module use a rolling upgrade install mechanism	1.3(2a)	
Running configuration information	Display Configurations based a specified feature, interface, module, or VSAN.	1.3(1)	
Licensing	Access specified premium features on the switch.	1.3(1)	
Initial Setup Additions	Configure the full zoneset distribution and FC ID persistence features for the entire fabric during initial setup.	1.3(1)	
Automatic image synchronization	The running image is automatically synchronized in the standby supervisor module by the active supervisor module.	1.3(1)	
Standby state	The internal standby state indicates that a switchover is possible when the redundancy state or the supervisor state display standby or HA standby.	1.3(1)	

Table 1 Documented Features for the Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide (continued)

Feature	Description	Changed in Release	Where Documented
Terminal connection options	From the active supervisor module, you can connect to a console terminal, a Telnet terminal, or an SSH terminal.	1.3(1)	
Standby supervisor module boot variables	The software forces the standby supervisor module to run the same version as the active supervisor module.	1.3(1)	
Replacing modules	Ensure that the new module is running the same software version as the rest of the switch. I.	1.3(1)	
Transceiver and calibration information	Display real-time diagnostics information.	1.3(1)	
Buffer-to-Buffer Credit (BB_credit) display	Displays the receive and transmit BB_credit along with other pertinent interface information.	1.3(1)	
PortChannel Quiesce	Use the **quiesce** feature on an ISL to gracefully shutdown an interface without dropping any frames.	1.3(1)	
Zone membership	Assign zone membership criteria is also based on the interface and domain ID, domain ID and port number, and IP address.	1.3(1)	
Inter-VSAN routing (IVR)	Access resources across VSANs without compromising other VSAN benefits.	1.3(1)	
Fabric-Device Management Interface (FDMI)	Enables management of devices using the FDMI feature.	1.3(1)	
AAA server groups	Configure remote AAA servers using server groups.	1.3(1)	
TACACS+ authentication	Use the Terminal Access Controller Access Control System plus (TACACS+) protocol to communicate with remote AAA servers.	1.3(1)	
RADIUS enhancements	Configure multiple RADIUS server groups.	1.3(1)	

Table 1 Documented Features for the Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide (continued)

Feature	Description	Changed in Release	Where Documented
FC-SP DHCHAP	Configure Fibre Channel Security Protocol (FC-SP) authentication to overcome security challenges for enterprise-wide fabrics. Diffie-Hellman Challenge Handshake Authentication Protocol (DHCHAP) provides authentication between Cisco MDS switches and other devices.	1.3(1)	
FI-bre CON-nection (FICON)	Intermix FICON and Fibre Channel Protocol (FCP) traffic on the same switch without compromising scalability, availability, manageability and network security.	1.3(1)	
Fabric Binding	Prevent unauthorized switches from joining the fabric or disrupting current fabric operations.	1.3(1)	
Registered Link Incident Report (RLIR)	Use the RLIR function to send a LIR to a registered Nx-port.	1.3(1)	
Trespass support	Use the trespass feature to enable the export of Logical Units (LUs) from the active to the passive port of a statically imported iSCSI target.	1.3(1)	
Internet Storage Name Service (iSNS)	Use the iSNS services to automate the discovery and management of iSCSI devices.	1.3(1)	
Proxy initiator	Connect all iSCSI initiators through one IPS port to make it appear as one Fibre Channel port per VSAN.	1.3(1)	
FCIP write accelerator	Improve application performance using the FCIP write acceleration feature.	1.3(1)	
FCIP compression	Allow IP packets to be compressed on the FCIP link if this feature is enabled on that link.	1.3(1)	
VSAN membership for iSCSI interfaces	Configure an iSCSI host to be a member of one or more VSANs.	1.3(1)	

Table 1 Documented Features for the Cisco MDS 9000 Family Fabric Manager Switch Configuration Guide (continued)

Feature	Description	Changed in Release	Where Documented
Call Home enhancements	Define a Call Home destination profile, select predefined types of Call Home alerts, or filter messages based on their level of urgency.	1.3(1)	
FC Domain ID changes	Define the default behavior to enable persistent FC IDs globally or for each VSAN.	1.3(1)	
Port rate limiting	Use the port rate limiting feature to control ingress traffic into a Fibre Channel port.	1.3(1)	
Quality of Service (QoS)	Configure four priority levels for service differentiation.	1.3(1)	
Auto-discovery of SCSI targets	Displays automatically discovered SCSI targets.	1.3(1)	
IPS SPAN source	Assign a Switched Port Analyzer (SPAN) source on the IP Storage Services (IPS) module.	1.3(1)	
Per VSAN Time Out Values (TOV)	Configure different TOVs for a specified VSAN with special links like FC or IP tunnels.	1.3(1)	
Deleting directories	Deleting a specified directory deletes the entire directory and all its contents.	All	