



# New and Changed Information

[Table 1](#) summarizes the new and changed commands for Cisco MDS NX-OS Release 6.2(1) and tells you where they are documented in the *Cisco MDS 9000 Family Command Reference* .

The *Cisco MDS 9000 Family Command Reference* applies to Cisco NX-OS Release 6.2(1), but describes all features in Cisco SAN-OS releases. If you are running Cisco SAN-OS 3.x or lower software on an MDS switch, refer to the *Cisco MDS 9000 Family CLI Command Reference* for the release train that applies to the release on your switch.



**Note**

As of NX-OS Release 4.1(1b), SAN-OS has been changed to NX-OS. References to SAN-OS releases before 4.1(1b) still apply.

**Table 1**      ***New and Changed Commands in the Cisco MDS 9000 Family Command Reference***

Feature	Description	Where Documented
<b>New and Changed Commands for Cisco NX-OS Release 6.2(5)</b>		
<b>destination interface</b>	SPAN is supported and RSPAN is not supported in Cisco MDS 9250i Multiservice Fabric Switch.	D command
<b>show fc-tunnel</b>	This command was deprecated.	Show Command
<b>fc-tunnel</b>	All the <b>fc-tunnel</b> commands are not supported in Cisco MDS 9250i Multiservice Fabric Switch.	F Command
<b>ioa-ping</b>	This command was introduced.	I command
<b>Pathtrace</b>	This command was introduced.	P Command
<b>show fcip</b>	Added the command output for FCIP Profiles for Cisco MDS 9250i Multiservice Fabric Switch.	Show Command
<b>show interface capabilities</b>	Added the Cisco MDS 9250i Multiservice Fabric Switch output to the “ <b>show interface capabilities</b> ”command.	

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
<b>show interface</b>	Added the command output for detailed FCIP Interface Standard Counter Information, FCIP Interface Summary of Counters for a Specified Interface, brief FCIP Interface Counter Information for Cisco MDS 9250i Multiservice Fabric Switch.	
<b>show interface ioa</b>	Added the <b>show interface ioa 1/1 counters brief</b> command to show the average for 5minutes, 12 hours and 24 hours respectively.	

**New and Changed Commands for Cisco NX-OS Release 6.2(3)**

<b>fcdomain</b>	<b>show fcdomain vsan</b> command (Changed the command output)	Show Commands
<b>counters</b>	Deprecated the <b>show interface counters performance</b> command	

**New and Changed Commands for Cisco NX-OS Release 6.2(1)**

<b>Online diagnostics (GOLD)</b>	Added the <b>diagnostic bootup level</b> command	D Commands
	Added the <b>diagnostic monitor interval module</b> command	
	Added the <b>diagnostic monitor module</b> command	
	Added the <b>diagnostic ondemand interaction</b> command	
	Added the <b>diagnostic ondemand action-on-failure</b> command	
	Added the <b>diagnostic start module</b> command	
	Added the <b>diagnostic stop module</b> command	
	Added the <b>show diagnostic bootup level</b> command	Show Commands
	Added the <b>show diagnostic content module</b> command	
	Added the <b>show diagnostic description module</b> command	
	Added the <b>show diagnostic events</b> command	
	Added the <b>show diagnostic ondemand setting</b> command	
	Added the <b>show diagnostic result module</b> command	
	Added the <b>show diagnostic simulation module</b> command	

**Table 1**      *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
	Added the <b>show diagnostic status module</b> command	
	Added the <b>show hardware capacity</b> command	
	Added the <b>show module</b> command	
<b>Deprecated secure erase commands</b>	secure-erase abort job	S Commands
	secure-erase create algorithm	
	secure-erase create job	
	secure-erase create-vi vsan	
	secure-erase destroy algorithm	
	secure-erase destroy job	
	secure-erase destroy-vi vsan	
	secure-erase start job	
	secure-erase stop job	
	secure-erase validate job	
	security-mode	
	add-session vsan	A Commands
	add-step dynamic	
	add-step static	
	add-tgt vsan	
	add-vi vsan	
	show secure-erase vsan	Show Commands
	show secure-erase algorithm	
	show secure-erase job	
	show secure-erase job detail	
	show secure-erase vsan	
<b>FCSP</b>	Added the <b>snmp-server aaa exclusive-behavior enable</b> command	S Commands
<b>clear snmp counters</b>	Added the <b>snmp</b> option to the syntax description.	C Commands
<b>Performance statistics</b>	<b>show interface</b> Added the <b>performance</b> , <b>module</b> and <b>interval</b> keywords to the syntax description.	Show Commands
<b>Display ISL related information</b>	Added <b>show topology isl</b> command.	Show Commands
<b>Luke CLI changes</b>	Added the <b>monitor session</b> command	M Commands

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
	Added the output for remote span configuration on local and remote switch for <b>fc-tunnel</b> command	F Commands
	<b>source</b> command Added the keywords <b>ethernet</b> , <b>ethernet-port-channel</b> , <b>sup-eth</b> , <b>vlan</b> to the syntax description.	S Commands
	Added the <b>show monitor session</b> command	Show Commands
	Deprecated <b>span session</b> , <b>span session source interface</b> , <b>suspend</b> , <b>span max-queued-packets</b> commands	
<b>New and Changed Commands for Cisco NX-OS Release 5.2(8)</b>		
<b>RSCN</b>	Added the <b>rsn permit type nport event switch-config</b> command	R Commands
<b>New and Changed Commands for Cisco NX-OS Release 5.2(6)</b>		
Slow drain	Added the <b>system default interface congestion timeout</b> command Added the <b>system default interface congestion mode</b> command Added the <b>system default interface pause timeout</b> command Added the <b>system default interface pause mode</b> command	S Commands
Smart Zoning	Added the <b>show zone smart-zoning auto-conv</b> command	Show Commands
	Added the <b>zone smart-zoning enable</b> command	Z Commands
	Added the <b>clear zone smart-zoning</b> command	C Commands
	Added the <b>zone convert smart-zoning</b> command	Z Commands
	<b>member</b> (zone configuration and zoneset-zone configuration submode) Added the keywords <b>both</b> , <b>initiator</b> , <b>target</b> to the syntax description	M Commands
	Added the <b>system default zone smart-zone enable</b> command	S Commands
	Added the <b>show zone policy</b> command	Show Commands
	Added the <b>show zone internal vsan</b> command	Show Commands
	Added the <b>show zone internal global-info</b> command	Show Commands

**New and Changed Commands for Cisco NX-OS Release 5.2(2a)**

**Table 1**      ***New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
Port Monitor	<b>counter (port-group-monitor configuration mode)</b> command  (Added 3 new counters to the syntax description)	C Commands
<b>New and Changed Commands for Cisco NX-OS Release 5.2(1)</b>		
CallHome	<b>transport http proxy enable</b> command	T Commands
	<b>transport http proxy server</b> command	
	<b>show callhome transport</b> command	Show Commands
	<b>show logging</b> command (Added a new comment)	O Commands
	<b>out-of-service</b> command (This command was deprecated)	
	<b>out-of-service module</b> command (Applicable for supervisor module only)	
	<b>out-of-service xbar</b> command (This command was deprecated)	
<b>New and Changed Commands for Cisco NX-OS Release 5.0(1a)</b>		
AAA enhancements	<b>radius-server test</b> command	R Commands
	<b>tacacs-server test</b> command	T Commands
	<b>aaa authentication login chap enable</b> command	A Commands
	<b>aaa authentication login</b> command (Added <b>fallback</b> , <b>error</b> , and <b>local</b> keywords to the syntax description)	
	<b>show aaa authentication login chap enable</b> command	Show commands
AAM	<b>ivr aam register</b> command	I Commands
	<b>ivr aam pre-deregister-check</b> command	
	<b>fc-redirect version2 enable</b> command	F Commands
	<b>fc-redirect ivr-support enable</b> command	
	<b>show ivr aam</b> command	Show Commands
Enhancements for Call Home	<b>transport email mail-server</b> command	T Commands
	<b>show callhome transport</b> command	Show Commands
Per-command authorization with TACACS with roles support	<b>enable</b> command	E Commands
	<b>enable user-server-group</b> command	
	<b>feature</b> command (Added <b>privilege</b> keyword to the syntax description)	F Commands

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
SSH enhancements	<b>username</b> command (Added the <b>keypair</b> and <b>Priv-lvl</b> keyword to the syntax description)	U Commands
	<b>show username</b> command	Show Commands
FICON	<b>ficon-tape-read-accelerator</b> command	F Commands
ISAPI enhancements	<b>ssm enable feature</b> command (Added a <b>node</b> keyword to the syntax description)	
Cert PKI	<b>show crypto ca remote-certstore</b> command	Show Commands
	<b>show crypto certificatemap</b> command	
	<b>show crypto ssh-auth-map</b> command	
	<b>crypto certificatemap mapname</b> command	C Commands
	<b>crypto cert ssh-authorize</b> command	
	<b>crypto ca lookup</b> command	
	<b>crypto ca remote ldap</b> command	
	<b>filter</b> command	F Commands
LDAP	<b>ldap-server deadtime</b> command	L Commands
	<b>ldap-server port</b> command	
	<b>ldap-server timeout</b> command	
	<b>ldap-server host</b> command	
	<b>ldap-search-map</b> command	
	<b>aaa group server</b> command	A Commands
	<b>server</b> command	S Commands
	<b>show ldap-server</b> command	Show Commands
	<b>show ldap-server groups</b> command	
	<b>show ldap-search-map</b> command	
	<b>aaa authorization ssh-certificate</b> command	A Commands
	<b>aaa authorization ssh-publickey</b> command	
	<b>authentication</b> command	
	<b>auth-mechanism plain</b> command	
	<b>debug ldap</b> command	D Commands
	<b>enable cert-DN-match</b> command	E Commands
	<b>enable user-server-group</b> command	
	<b>deadtime (server group configuration mode)</b> command	D Commands
	<b>CRLLookup</b> command	C Commands
	<b>trustedcert</b> command	T Commands

**Table 1**      *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
	<b>user-certdn-match</b> command	U Commands
	<b>user-pubkey-match</b> command	
	<b>user-switch-bind</b> command	
	<b>userprofile</b> command	
<b>Deprecated Command</b>	<b>fcc enable</b> command	F Commands
<b>New and Changed Commands for Cisco NX-OS Release 4.2(1)</b>		
Call Home	<b>destination-profile</b> command (Deleted Avanti keyword from the syntax description. Added the Usage guideline)	D Commands
EEM	<b>action event-default</b> command (Added a note)	A Commands
	<b>terminal event-manager bypass</b> command (Added a note)	T Commands
	<b>event</b> command (Added a note)	E Commands
Port Guard	<b>errdisable detect cause bit-errors</b> command	E Commands
	<b>errdisable detect cause credit-loss</b> command	
	<b>errdisable detect cause link-reset</b> command	
	<b>errdisable detect cause signal-loss</b> command	
	<b>errdisable detect cause sync-loss</b> command	
	<b>errdisable detect cause trustsec-violation</b> command	
	<b>feature</b> command (Added <b>ioa</b> keyword to the syntax description)	F Commands
AAA Enhancements	<b>show aaa authentication login chap enable</b> command	Show Commands
	<b>show aaa authorization all</b> command	
	<b>clear tacacs-server statistics</b> command	C Commands
	<b>clear radius-server statistics</b> command	
	<b>aaa authentication login mschapv2 enable</b> command	A Commands
	<b>aaa authorization</b> command	
	<b>test aaa authorization</b> command	T Commands
	<b>terminal verify-user</b> command	
FC-redirect with IVR	<b>show ivr aam</b> command	Show Commands
FC-ID Visibility	<b>show fcns database</b> command (Changed the command output)	

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
IOA	<b>ioa site-local</b> command	I commands
	<b>ioa cluster</b> command	
	<b>interface ioa</b> command	
	<b>load-balancing (Cisco IOA cluster Configuration submode)</b> command	L Commands
	<b>nport</b> command	N Commands
	<b>node (Cisco IOA cluster node configuration submode)</b> command	
	<b>flowgroup</b> command	
	<b>host</b> command	H Commands
	<b>trustedcert</b> command	
	<b>show ioa internal interface ioa</b> command	Show Commands
	<b>show ioa cluster summary</b> command	
	<b>show interface ioa</b> command	
	<b>show ioa cluster</b> command	
Port Group Monitoring	<b>show port-group-monitor active</b> command	Show Commands
	<b>show port-group-monitor</b> command	
	<b>show port-group-monitor status</b> command	
	<b>port-group-monitor activate</b> command	P Commands
	<b>port-group-monitor name</b> command	
	<b>port-group-monitor enable</b> command	
	<b>port-group-monitor counter</b> command	
	<b>monitor counter</b> command	M Commands
Trustsec	<b>show running-config callhome</b> command	Show Commands
	<b>show fcsp interface</b> command	
	<b>fcsp esp sa</b> command	F Commands
	<b>fcsp</b> command	
	<b>ingress-sa</b> command	I Commands
	<b>interface fc</b> command	
	<b>egress-sa</b> command	E Commands
	<b>mode</b> command	M Commands
	<b>key (sa configuration submode)</b> command	K Commands
	<b>salt (sa configuration submode)</b> command	S Commands

**New and Changed Commands for Cisco NX-OS Release 4.1(3a)**



**Table 1**      ***New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)***

Feature	Description	Where Documented
AAA enhancements	<b>aaa authentication login ascii-authentication</b> command  (enable the password aging command has been changed from <b>aaa authentication login password-aging enable</b> to <b>aaa authentication login ascii-authentication</b> )	A Commands
	<b>show aaa authentication login ascii-authentication</b> command  (enable the password aging command has been changed from <b>show aaa authentication login password-aging enable</b> to <b>show aaa authentication login ascii-authentication</b> )	Show Commands
<b>New and Changed Commands for Cisco NX-OS Release 4.1(3)</b>		
Call Home	<b>destination-profile</b> command  (Added the HTTPs URL and transport method to the syntax description)	D Commands
Port Guard	<b>errdisable detect cause link-down</b> command	E Commands
Port Owner	<b>switchport owner</b> command	S Commands
F port Trunking	command  (Added Keywords <b>hhttp-server</b> , <b>fport-channel-trunk</b> , <b>npiv</b> and <b>npv</b> to the syntax description)	F Commands
	<b>switchport</b> command  (Added the <b>F</b> and <b>NP</b> port mode)	S Commands
	<b>show flogi database interface</b> command	Show Commands
F port Channeling	<b>show port-channel compatibility-parameters</b> command	Show Commands
	<b>show port-channel consistency</b> command	
	<b>show port-channel database</b> command	
	<b>show port-channel internal</b> command	
	<b>show port-channel summary</b> command	
	<b>show port-channel usage</b> command	
	<b>channel-group</b> command  (Deleted <b>auto</b> keyword from the syntax description)	C Commands
	<b>port-channel persistent</b> command  (Added usage guideline)	P Commands
	<b>clear asic-cnt</b> command	C Commands

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
	<b>show fcns database</b> command (Changed the command output for <b>show fcns database detail</b> )	Show Commands
Hardware	<b>show system</b> command (Changed the <b>show system uptime</b> output)	Show Commands
Radius Configuration	<b>radius-server host</b> command (Changed the command output)	R Commands
	<b>show running radius</b> command (Changed the command output)	Show Commands
EEM	<b>event manager applet</b> command	E Commands
	<b>errdisable detect cause bit-errors</b> command	
	<b>event manager policy</b> command	
	<b>event manager environment</b> command	
	<b>description</b> command	D Commands
	<b>show event manager policy</b> command	Show Commands
	<b>show event manager environment</b> command	
	<b>action cli</b> command	A Commands
	<b>action counter</b> command	
	<b>action event-default</b> command	
	<b>action exception log</b> command	
	<b>action forceshut</b> command	
	<b>action overbudgetshut</b> command	
	<b>action policy-default</b> command	
	<b>action reload</b> command	
	<b>action snmp-trap</b> command	
	<b>action syslog</b> command	
	<b>Added SME Commands</b>	
SME	<b>scaling batch enable</b> command	S Commands

**Table 1**      ***New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
<b>New and Changed Commands for Cisco NX-OS Release 4.1(1b)</b>		
Call Home	<b>switch-priority</b> command (Added usage guidelines)	S Commands
	<b>system delayed-traps timer</b> command	
	<b>system delayed-traps enable mode</b> command	
system health	<b>system health clear-errors</b> command	S Commands
Port-monitor	<b>show port-monitor status</b> command	Show Commands
	<b>show port-monitor active</b> command	
SNMP	<b>show system internal snmp lc</b> command	
SSM	<b>ssm upgrade delay</b> command	S Commands
SANTap	<b>show isapi tech-support santap file</b> command (Added usage guidelines)	Show Commands
	<b>show santap module dvt</b> command	
	<b>show santap module dvtlun</b> command	
	<b>show santap vttbl dvt</b> command	
	<b>show santap vttbl dvt host</b> command	
SDV	<b>show sdv</b> command (Changed the command output)	Show Commands
	<b>attribute failover auto</b> command	A Commands
General Configuration	<b>feature</b> command	F Commands
DPVM	<b>clear dpvm merge statistics</b> command	C Commands
	<b>show dpvm merge statistics</b> command	Show Commands
	<b>show dpvm merge status</b> command	
	<b>dpvm overwrite-duplicate-pwvn</b> command	D Commands
Generation 3 Modules	<b>do</b> command (Added the command output for extended receive bbcredit interface) (Added a Note)	D Commands
	<b>show interface</b> command (Added the command output for bbcredit information for a switch port) (Added the command output for interface capabilities on a 48 port line card)	Show Commands

**Table 1** *New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)*

Feature	Description	Where Documented
	<b>show module</b> command (Added the command output for a module resource on a 24 port line card with all ports in shared mode) (Added the command output for a module resource on a 24 port line card with few ports in shared mode and few port in dedicated mode) (Added the command output for a module resource on a 12 port line card with all ports in dedicated mode) (Added the command output for a module resource on a 12 port line card with all ports in dedicated mode and extended feature enabled)	Show Commands
Hardware	<b>show hardware fabric-mode</b> command	Show Commands
	<b>show username</b> command (Changed the command output from SAN-OS to NX-OS)	Show Commands
	<b>show hardware</b> command (Changed the command output from SAN-OS to NX-OS)	
	<b>show copyright</b> command (Changed the command output from SAN-OS to NX-OS)	

**Deprecated Commands**(see the **feature** command for replacement commands)

	<b>crypto ike enable</b> command	C Commands
	<b>dpvm enable</b> command	D Commands
	<b>fabric-binding enable</b> command	F Commands
	<b>fcip enable</b> command	
	<b>fcsp enable</b> command	
	<b>ficon enable</b> command	
	<b>ivr enable</b> command	I Commands
	<b>port-security enable</b> command	P Commands
	<b>sdv enable</b> command	S Commands
	<b>tacacs+ enable</b> command	T Commands
	<b>Added DMM Commands</b>	

**Table 1**      ***New and Changed Commands in the Cisco MDS 9000 Family Command Reference (continued)***

<b>Feature</b>	<b>Description</b>	<b>Where Documented</b>
DMM	<b>dmm module job</b> command (Added the <b>set-vi</b> and <b>modify rate</b> keywords)	D Commands
	<b>show dmm module</b> command (Added the syntax description and the command output)	Show Commands
	<b>Added SME Commands</b>	
SME	<b>cluster</b> command ( <b>Cluster</b> command is replaced by the <b>feature</b> command)	C Commands
	<b>show tech-support sme</b> command (Added the command output)	Show Commands
	<b>show role</b> command (Added the command output)	
	<b>show sme cluster</b> (Added the syntax description)	
	<b>show sme transport</b> command (Added the syntax description)	
	<b>show debug</b> command (Added the syntax description)	
	<b>delete</b> command (Added the syntax description)	D Commands

