

Command Reference

The commands in this appendix apply to the Cisco MDS 9020 Fabric Switch. All commands are shown here in alphabetical order regardless of command mode. See the “Command Modes” section to determine the appropriate mode for each command.

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■ cd

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cd

To change the default file system, use the **cd** command in EXEC mode.

cd [bootflash: | volatile:]

Syntax Description	bootflash: Flash image on the non-volatile file system. volatile: Flash image on the volatile file system.
---------------------------	---

Defaults	bootflash:
-----------------	-------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following example changes the file system to the bootflash: file system and displays the contents.
-----------------	--

```
switch# cd bootflash:  
  
switch# dir  
       656      Apr 25 22:04:33 2005  running-config  
  
Usage for bootflash://  
14336      bytes used  
2668544    bytes free  
2682880    bytes total
```

Related Commands	Command	Description
	dir	Displays a list of files on a file system.

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clear counters interface

To clear the interface counters, use the **clear counters interface** command in EXEC mode.

clear counters interface {all | fc 1/port}

Syntax Description	
all	Clears all interface counters.
fc	Fibre Channel interface for which to clear counters.
1/port	Specifies slot 1 and the port number. The port number is in the range 1 to 20.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The following table lists the keywords and number ranges for the **clear counters interface** types:

Keyword	Interface Type	Number
1/port	Fibre Channel	1/1 to 1/20

This command clears counters displayed in the **show interface** command output.

Examples The following is an example of how to clear counters for a Fibre Channel interface 1/3:

```
switch# clear counters interface fc 1/3
```

Related Commands	Command	Description
	show interface	Displays interface information.

■ clear fspf counters***Send documentation comments to mdsfeedback-doc@cisco.com.***

clear fspf counters

To clear the Fabric Shortest Path First statistics, use the **clear fspf counters** command in EXEC mode.

clear fspf counters [interface fc 1/port]

Syntax Description	interface fc (Optional) Fibre Channel interface. 1/port FC interface number where the slot number is 1 and the interface number is the port number in the range 1 to 20.
---------------------------	---

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines If the interface is not specified, then all of the FC interface counters are cleared. If the interface is specified, then the counters of the specific interface are cleared.

Examples The following example clears FSPF statistics specific to Fibre Channel interface 1/3.

```
switch# clear fspf counters interface fc 1/3
```

Related Commands	Command	Description
	show fspf	Displays global FSPF information.

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clear ip access-list counters

To clear IP access list counters, use the **clear ip access-list counters** command in EXEC mode.

clear ip access-list counters *list-name*

Syntax Description	<i>list-name</i> Specifies the IP access list name (maximum 64 characters).				
Defaults	No default behavior or values.				
Command Modes	EXEC.				
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Examples	The following example clears the counters for an IP access list. <pre>switch# clear ip access-list counters adminlist</pre>				
Related Commands	<table border="1"><thead><tr><th>Command</th><th>Description</th></tr></thead><tbody><tr><td>show ip access-list</td><td>Displays IP access list information.</td></tr></tbody></table>	Command	Description	show ip access-list	Displays IP access list information.
Command	Description				
show ip access-list	Displays IP access list information.				

■ clear zone database***Send documentation comments to mdsfeedback-doc@cisco.com.***

clear zone database

To clear all configured information in the zone server, use the **clear zone database** command in EXEC mode.

clear zone database

SyntaxDescription This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines After entering a **clear zone database** command, you need to explicitly enter the **copy running-config startup-config** command to ensure that the running configuration is used when you next start the switch.

Examples The following example shows how to clear all configured information in the zone server.

```
switch# clear zone database
```

Related Commands

Command	Description
show zone	Displays zone information for any configured interface.

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clock

To configure the time zone and summer-time-of-day (daylight savings), use the **clock** command in configuration mode.

clock

```
{summer-time daylight-timezone-name start-week start-day start-month start-time end-week
end-day end-month end-time daylight-offset-to-be-added-in-minutes |
time-zone timezone-name hours-offset minutes-offset}
```

To disable the daylight savings time adjustment or to set the time zone to the default, use the no form of this command.

```
no clock {summer-time | time-zone}
```

Syntax Description

summer-time	Configures daylight savings time.
<i>daylight-timezone-name</i>	Time zone name. The time zone name has a maximum of 8 characters.
<i>start-week</i>	The week-of-the-month ranging from 1 through 4; 5 specifies the last week
<i>end-week</i>	of the month.
<i>start-day</i>	The day ranging from Sunday through Saturday.
<i>end-day</i>	
<i>start-month</i>	The month ranging from January through December.
<i>end-month</i>	
<i>start-time</i>	The time in HH:MM:SS format.
<i>end-time</i>	
<i>daylight-offset-to-be-added-in-minutes</i>	The daylight offset ranges from 1 through 1440 minutes that will be added to the start time and deleted from the end time.
time-zone	Sets the time zone.
<i>timezone-name</i>	Time zone name. The time zone name has a maximum of 8 characters.
<i>hours-offset</i>	Hours offset from Coordinated Universal Time (UTC) ranging from -23 to 23.
<i>minutes-offset</i>	Minutes offset from the hour ranging from -59 to 59.

Defaults

The default time zone is Coordinated Universal Time (UTC), which is the same as Greenwich Mean Time (GMT).

Command Modes

Configuration

Command History

This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

clock

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Examples

The following example adjusts the daylight savings time for the Pacific time zone by 60 minutes starting on the first Sunday in April at 2 a.m. and ending on the last Sunday in October at 2 a.m.

```
switch# config
switch(config)# clock summer-time Pacific 1 Sun Apr 02:00 5 Sun Oct 02:00 60
switch(config)# no clock summer-time
switch(config)# exit
switch#
```

Related Commands

Command	Description
clock set	Changes the time on the switch.
show clock	Displays the current date and time.
show running-config	Displays changes made to the time zone configuration along with other configuration information.

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clock set

To change the system time, use the **clock set** command in EXEC mode.

clock set HH:MM:SS DD Month YYYY

Syntax Description	
<i>HH</i>	The two-digit time in hours in military format (15 for 3 p.m.).
<i>MM</i>	The two-digit time in minutes (58).
<i>SS</i>	The two-digit time in seconds (15).
<i>DD</i>	The two-digit date (12).
<i>Month</i>	The month in words (August).
<i>YYYY</i>	The four-digit year (2002).

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines If the system is synchronized with an NTP clock server, you do not need to set the system clock. Use this command if no other time sources are available. The time specified in this command is relative to the configured time zone.

The **clock set** command changes are saved across system resets.

Examples The following example displays the **clock set** command:

```
switch# clock set 15:58:15 15 August 2005
Mon Aug 15 15:58:00 PDT 2005
```

config terminal

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config terminal

To enter the configuration mode, use the **config** command in EXEC mode.

config terminal

Syntax Description This command had no arguments or keywords.

Defaults None.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example enters the configuration mode:

```
switch# config terminal
Enter configuration commands, one per line.
switch(config)#

```

The following example enters the configuration mode using an abbreviated format of the command:

```
switch# config
Enter configuration commands, one per line.
switch(config)#

```

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copy

To save a backup of the system software, use the **copy** command in EXEC mode.

copy source destination

Syntax Description	<p><i>source</i> Location URL or name of the source file to be copied. Source file systems can be bootflash:, running-config, startup-config, and volatile:</p> <p><i>destination</i> Location URL or name of the copied file. Destination file systems can be bootflash:, ftp:, running-config, startup-config, tftp:, and volatile:</p>
---------------------------	---

The following table lists the aliases for source and destination URLs.

bootflash:	Specifies the switch non-volatile file system. The syntax for this alias is bootflash:filename
<i>filename</i>	The name of the file.
ftp:	Specifies the location for a File Transfer Protocol (FTP) network server. The syntax for this alias is ftp:[//location]/directory]/filename .
running-config	Specifies the configuration currently running on the switch. The system:running-config keyword represents the current running configuration file.
startup-config	Specifies the configuration used during initialization (startup). You can copy the startup configuration from bootflash. The bootflash:startup-config keyword represents the configuration file used during initialization.
tftp:	Specifies the location for a Trivial File Transfer Protocol (TFTP) network server. The syntax for this alias is tftp:[//location]/directory]/filename .
volatile:	Specifies the location for the volatile file system. The syntax for this alias is volatile:filename

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Usage Guidelines	This command be used to make the running and the backup copy of the configuration identical.
-------------------------	--

The copy function will not be completed if the required space is not available in the file system. First change to the required file system (for example, **cd bootflash:**) and verify the available space (for example, **dir bootflash:**).

copy

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Examples

The following example saves your configuration to the startup configuration.

```
switch# copy running-config startup-config
```

The following example creates a snapshot of the current running configuration.

```
switch# copy running-config bootflash:running-snapshot
```

The following example saves a backup copy of the startup configuration.

```
switch# copy startup-config bootflash:startup-backup
```

The following example saves a copy of the startup configuration on a remote host.

```
switch# copy startup-config ftp://10.20.102.98/configs/q100-startup
```

Related Commands

Command	Description
cd	Changes the default file system.
dir	Displays a list of files on a file system.
reload	Resets the switch.
show version	Displays the version of the running configuration file.
move	Moves a file to another filename.

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delete

To delete a file, use the **delete** command in EXEC mode.

```
delete {bootflash:filename | volatile:filename}
```

Syntax Description

bootflash:	Flash image that resides on the non-volatile file system.
volatile:	Flash image that resides on the volatile file system.
<i>filename</i>	The name of the file to be deleted.

Defaults

No default behavior or values.

Command Modes

EXEC

Command History

This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines

When you delete a file, the software erases the file.



If you move to a specific file system with the **cd** command and enter the **delete** command, all files in the file system will be deleted.

Examples

The following example deletes a file from the volatile file system.

```
switch# delete volatile:my_file
```

Related Commands

Command	Description
cd	Changes the default file system.
dir	Displays a list of files on a file system.
move	Moves a file to another filename.

■ dir

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dir

To display the contents of the current file system or the specified file system, use the **dir** command in EXEC mode.

dir [bootflash:*filename* | volatile:*filename*]

Syntax Description	bootflash: The non-volatile file system. filename (Optional) Name of the file to display on a specified file system. The files can be of any type. You can use wildcards in the filename. A wildcard character (*) matches all patterns. Strings after a wildcard are ignored. volatile: The volatile file system.
---------------------------	---

Defaults The default file system is specified by the **cd** command.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example shows how to list the files on the volatile file system.

```
switch# dir volatile:
      1446   Apr 04 20:08:06 2005  image_0
      1446   Apr 04 20:09:34 2005  image_1
      1446   Apr 04 20:09:32 2005  image_2
      1446   Apr 04 20:09:30 2005  image_3
      1446   Apr 04 20:09:28 2005  ilc1.bin
      1446   Apr 04 20:09:27 2005  startup-con_1
      1446   Apr 04 20:09:24 2005  startup-con_2
      1446   Apr 04 20:09:22 2005  startup-con_3
      1446   Apr 04 20:09:20 2005  startup-con_4
      1446   Apr 04 20:10:43 2005  zzzffp

Usage for volatile://
    40960 bytes used
  20930560 bytes free
  20971520 bytes total
```

Related Commands	Command	Description
	cd	Changes the default file system.

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do

Use the **do** command to execute an EXEC mode command from any configuration mode or submode.

do *command*

Syntax Description	<i>command</i>	Specifies the EXEC command to be executed.																																							
Defaults	No default behavior or values.																																								
Command Modes	All																																								
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).																																								
Usage Guidelines	Use this command to execute EXEC commands while configuring your switch. After the EXEC command is executed, the system returns to the mode from which you entered the do command.																																								
Examples	<p>The following example displays the logging levels using the do command in configuration mode.</p> <pre>switch(config)# do show logging level</pre> <table border="1"> <thead> <tr> <th>Facility</th> <th>Default Severity</th> <th>Current Session Severity</th> </tr> </thead> <tbody> <tr><td>fcns</td><td>6</td><td>2</td></tr> <tr><td>fcs</td><td>6</td><td>2</td></tr> <tr><td>zone</td><td>6</td><td>2</td></tr> <tr><td>auth</td><td>6</td><td>2</td></tr> <tr><td>ipconf</td><td>6</td><td>2</td></tr> <tr><td>module</td><td>6</td><td>2</td></tr> <tr><td>ntp</td><td>6</td><td>2</td></tr> <tr><td>sysmgr</td><td>6</td><td>2</td></tr> <tr><td>user</td><td>6</td><td>2</td></tr> <tr><td>port</td><td>6</td><td>2</td></tr> <tr><td>fcdomain</td><td>6</td><td>2</td></tr> <tr><td>fspf</td><td>6</td><td>2</td></tr> </tbody> </table>		Facility	Default Severity	Current Session Severity	fcns	6	2	fcs	6	2	zone	6	2	auth	6	2	ipconf	6	2	module	6	2	ntp	6	2	sysmgr	6	2	user	6	2	port	6	2	fcdomain	6	2	fspf	6	2
Facility	Default Severity	Current Session Severity																																							
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auth	6	2																																							
ipconf	6	2																																							
module	6	2																																							
ntp	6	2																																							
sysmgr	6	2																																							
user	6	2																																							
port	6	2																																							
fcdomain	6	2																																							
fspf	6	2																																							

end

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end

To exit any of the configuration modes and return to EXEC mode, use the **end** command in configuration mode.

end

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines None.

Examples The following example sets the time zone to GMT. Entering the **end** command causes the system to exit configuration mode and return to EXEC mode.

```
switch(config)# clock timezone
george(config)# end
switch#
```

Related Commands

Command	Description
exit	Exits configuration mode, or any of the configuration modes.

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exit

To exit any configuration mode or close an active terminal session and terminate the EXEC, use the **exit** command at the system prompt.

```
exit
```

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes All.

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines Use the **exit** command at the EXEC levels to exit the EXEC mode. Use the **exit** command at the configuration level to return to privileged EXEC mode. Use the **exit** command in interface configuration submode to return to configuration mode. You also use the **end** command, from any configuration mode to return to EXEC mode.

Examples The following example displays an exit from the interface configuration submode to return to the configuration mode.

```
switch(config-if)# exit
switch(config)#
```

The following example shows how to log out of an active session.

```
switch# exit
```

Related Commands

Command	Description
end	Returns you to EXEC mode.

falias name

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falias name

To configure an FC alias, use the **falias name** command in configuration mode.

falias name *alias-name*

Entering the **falias name** command opens the config-falias submode which provides access to the **member** subcommand:

member pwwn *pwwn-id*

To disable an FC alias, use the **no** form of this command.

no falias name *alias-name*

Syntax Description	<p>alias-name The name of the falias. Maximum length is 64 characters. This opens the config-falias submode.</p> <p>member Adds a member to the falias. This command is available only in the config-falias submode.</p> <p>pwwn <i>pwwn-id</i> Adds a member using the port WWN in the format <i>hh:hh:hh:hh:hh:hh:hh:hh</i>.</p>				
Defaults	No default behavior or values.				
Command Modes	Configuration				
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Usage Guidelines	To include multiple members in any alias, use the pWWN value.				
Examples	<p>The following examples show how to configure an FC alias called AliasSample.</p> <pre>switch# config switch(config)# falias name AliasSample switch(config-falias)# </pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>falias rename</td> <td>Renames an FC alias.</td> </tr> </tbody> </table>	Command	Description	falias rename	Renames an FC alias.
Command	Description				
falias rename	Renames an FC alias.				

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fcalias rename

To rename an FC alias, use the **fcalias rename** command in configuration mode.

fcalias rename *current-name new-name*

Syntax Description	<i>current-name</i> The current name of the fcalias. <i>new-name</i> The new name of the fcalias. Maximum length is 64 characters.
---------------------------	---

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	Configuration
----------------------	---------------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following examples show how to rename an fcalias called AliasSample.
-----------------	--

```
switch# config
switch(config)# fcalias rename AliasSample AliasNew
switch(config-falias) #
```

Related Commands	Command	Description
	fcalias name	Configures an FC alias.

fcdomain

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fcdomain

To configure the Fibre Channel domain feature, use the **fcdomain** command in configuration mode.

```
fcdomain {domain id {preferred | static} priority value | restart [disruptive]}
```

To disable the FC domain, use the **no** form of this command.

```
no fcdomain {domain id {preferred | static} priority value | restart [disruptive]}
```

Syntax Description	<table border="0"> <tr> <td>domain id</td><td>Configures the domain ID and its type. The range is 0 to 239.</td></tr> <tr> <td>preferred</td><td>Configures the domain ID as preferred. By default, the local switch accepts the domain ID assigned by the principal switch and the assigned domain ID becomes the runtime domain ID.</td></tr> <tr> <td>static</td><td>Configures the domain ID as static. The assigned domain ID is discarded, all local interfaces are isolated, and the local switch assigns itself the configured domain ID, which becomes the runtime domain ID.</td></tr> <tr> <td>priority value</td><td>Specifies the FC domain priority. The range is 1 to 254.</td></tr> <tr> <td>restart</td><td>Restarts a disruptive or nondisruptive reconfiguration.</td></tr> <tr> <td>disruptive</td><td>Forces the disruptive fabric reconfiguration.</td></tr> </table>	domain id	Configures the domain ID and its type. The range is 0 to 239.	preferred	Configures the domain ID as preferred. By default, the local switch accepts the domain ID assigned by the principal switch and the assigned domain ID becomes the runtime domain ID.	static	Configures the domain ID as static. The assigned domain ID is discarded, all local interfaces are isolated, and the local switch assigns itself the configured domain ID, which becomes the runtime domain ID.	priority value	Specifies the FC domain priority. The range is 1 to 254.	restart	Restarts a disruptive or nondisruptive reconfiguration.	disruptive	Forces the disruptive fabric reconfiguration.
domain id	Configures the domain ID and its type. The range is 0 to 239.												
preferred	Configures the domain ID as preferred. By default, the local switch accepts the domain ID assigned by the principal switch and the assigned domain ID becomes the runtime domain ID.												
static	Configures the domain ID as static. The assigned domain ID is discarded, all local interfaces are isolated, and the local switch assigns itself the configured domain ID, which becomes the runtime domain ID.												
priority value	Specifies the FC domain priority. The range is 1 to 254.												
restart	Restarts a disruptive or nondisruptive reconfiguration.												
disruptive	Forces the disruptive fabric reconfiguration.												

Defaults	Enabled.
Command Modes	Configuration
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	You can use this command to select the principle switch, domain ID distribution, reconfigure fabric, and allocate FC IDs.

Examples	The following examples show how to configure the Fibre Channel domain feature.
	<pre>switch# config switch(config)# fcdomain domain 3 preferred switch(config)# no fcdomain domain 3 preferred switch(config)# fcdomain domain 2 static switch(config)# no fcdomain domain 2 static switch(config)# fcdomain restart switch(config)# fcdomain restart disruptive</pre>

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```
switch(config)# fcdomain priority 25  
switch(config)# no fcdomain priority 25
```

Related Commands	Command	Description
	show fcdomain	Displays global information about the FC domain configurations.

Send documentation comments to mdsfeedback-doc@cisco.com.

fctimer

To change the default Fibre Channel timers, use the **fctimer** command in configuration mode.

```
fctimer {d_s_tov milliseconds | e_d_tov milliseconds | r_a_tov milliseconds}
```

To revert to the default values, use the **no** form of this command.

```
no fctimer {d_s_tov milliseconds | e_d_tov milliseconds | r_a_tov milliseconds}
```

Syntax Description	d_s_tov milliseconds Specifies the distributed services time out value. The range is 5000 to 100,000 milliseconds, with a default of 5000. e_d_tov milliseconds Specifies the error detect time out value. The range is 1000 to 100,000 milliseconds, with a default of 2000. r_a_tov milliseconds Specifies the resolution allocation time out value. The range is 5000 to 100,000 milliseconds, with a default of 10,000.
---------------------------	--

Command Modes	Configuration
----------------------	---------------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Usage Guidelines	In accordance with the FC-SW2 standard, the timeout values must be the same on each switch in the fabric.
-------------------------	---

Examples	The following example shows how to change the default Fibre Channel timers.
-----------------	---

```
switch# config
switch(config)# fctimer e_d_tov 5000
switch(config)# fctimer r_a_tov 7000
```

Related Commands	Command	Description
	show fctimer	Displays the configured Fibre Channel timer values.

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f SPF cost

To configure FSPF link cost for an interface, use the **f SPF cost** command in interface configuration submode.

f SPF cost *link-cost*

To revert to the default value, use the **no** form of this command.

no f SPF cost *link-cost*

Syntax Description	<i>link-cost</i> Enters FSPF link cost. The range is 1 to 65,535.				
Defaults	1000 for 1 Gbps 500 for 2 Gbps 250 for 4 Gbps				
Command Modes	Interface configuration				
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Usage Guidelines	Access this command from the <code>switch(config-if)#</code> submode. FSPF tracks the state of links on all switches in the fabric, associates a cost with each link in its database, and then chooses the path with a minimal cost. The cost associated with an interface can be changed using the f SPF cost command to implement the FSPF route selection.				
Examples	The following example shows how to set the FSPF link cost to 5000. <pre>switch# config switch(config)# interface fc1/1 switch(config-if)# f SPF cost 5000</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show f SPF interface</td> <td>Displays information for each selected interface.</td> </tr> </tbody> </table>	Command	Description	show f SPF interface	Displays information for each selected interface.
Command	Description				
show f SPF interface	Displays information for each selected interface.				

fspf dead-interval

Send documentation comments to mdsfeedback-doc@cisco.com.

fspf dead-interval

To set the maximum interval for which a hello message must be received before the neighbor is considered lost, use the **fspf dead-interval** command in interface configuration submode.

fspf dead-interval *seconds*

To revert to the default value, use the **no** form of this command.

no fspf dead-interval *seconds*

Syntax Description	<i>seconds</i>	Specifies the FSPF dead interval in seconds. The range is 2 to 65,535.
Defaults	80 seconds	
Command Modes	Interface configuration	
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).	
Usage Guidelines	Access this command from the <code>switch(config-if) #</code> submode.	
 Note	This value must be the same in the ports at both ends of the ISL.	
 Caution	An error is reported at the command prompt if the configured dead time interval is less than the hello time interval.	

Examples

```
switch# config
switch(config)# interface fc1/1
switch(config-if)# fspf dead-interval 4000
```

Related Commands	Command	Description
	show fspf interface	Displays information for each selected interface.

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fspf hello-interval

To verify the health of the link, use the **fspf hello-interval** command in interface configuration submode.

fspf hello-interval *seconds*

To revert to the default value, use the **no** form of this command.

no fspf hello-interval *seconds*

Syntax Description	<i>seconds</i> Specifies the FSPF hello-interval in seconds. The range is 1 to 65,535.				
Defaults	20 seconds				
Command Modes	Interface configuration				
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Usage Guidelines	<p>Access this command from the <code>switch(config-if)#</code> submode.</p> <p>This command configures FSPF for the specified FC interface.</p>				
Note	This value must be the same in the ports at both ends of the ISL.				
Examples	<pre>switch# config switch(config)# interface fc1/1 switch(config-if)# fspf hello-interval 3</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show fspf interface</td><td>Displays information for each selected interface.</td></tr> </tbody> </table>	Command	Description	show fspf interface	Displays information for each selected interface.
Command	Description				
show fspf interface	Displays information for each selected interface.				

fspf retransmit-interval

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fspf retransmit-interval

To specify the time after which an unacknowledged link state update should be transmitted on the interface, use the **fspf retransmit-interval** command in interface configuration submode.

fspf retransmit-interval *seconds*

To revert to the default value, use the **no** form of this command.

no fspf retransmit-interval *seconds*

Syntax Description	<i>seconds</i>	Specifies FSPF retransmit interval in seconds. The range is 1 to 4093.				
Defaults	5 seconds					
Command Modes	Interface configuration					
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).					
Usage Guidelines	Access this command from the <code>switch(config-if) #</code> submode.					
 Note	This value must be the same in the ports at both ends of the ISL.					
Examples	<pre>switch# config switch(config)# interface fc 1/1 switch(config-if)# fspf retransmit-interval 6</pre>					
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show fspf interface</td> <td>Displays information for each selected interface.</td> </tr> </tbody> </table>		Command	Description	show fspf interface	Displays information for each selected interface.
Command	Description					
show fspf interface	Displays information for each selected interface.					

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help

To display a list of available commands and arguments in the current command mode, use the **?** command in any mode. No carriage return is needed with this command.

```
?  
command ?  
command argument ?
```

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes All

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The **?** command alone displays available commands based on the command mode.
To display the arguments for a command, enter the command name, then a space, then the **?** command.
To display the keywords for an argument, enter the command, the argument, a space, then the **?** command.

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Examples

The following example displays the list of commands for EXEC mode.

```
switch# ?
  cd          Change current directory
  clear       Reset functions
  clock       Manage the system clock
  config      Enter configuration mode
  copy        Copy from one file to another
  delete      Delete a file
  dir         List files in a directory
  exit        Exit from the EXEC
  help        Press '?' key to display available commands
  install     Upgrade software
  move        Move files
  ping        Send echo messages
  reload      Reboot the entire box
  run-script  Run shell scripts
  setup       Run the basic SETUP command facility
  show        Show running system information
  sleep       Sleep for the specified number of seconds
  system      System management commands
  terminal    Set terminal line parameters
  write       Write current configuration
  zone        Execute zone server commands
  zoneset    Execute zoneset commands
```

The following example displays the arguments for the **copy** command.

```
switch# copy ?
  bootflash:      Select source filesystem
  ftp:           Select source filesystem
  running-config  Copy running configuration to destination
  startup-config  Copy startup configuration to destination
  tftp:          Select source filesystem
  volatile:      Select source filesystem
```

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install all

To upgrade firmware on the switch, use the **install all** command in EXEC mode. The **install all** command will attempt a nondisruptive upgrade; if a nondisruptive upgrade is not possible, a disruptive upgrade will occur.

install all system volatile:*filename*

Syntax Description	system Upgrades the system image. volatile: The volatile file system. filename The source file to be installed.
---------------------------	--

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The firmware image must be downloaded to the volatile file system before it can be installed. Use the **copy ftp:** or **copy tftp:** command to download the firmware image file.

Examples The following example downloads the firmware image to the volatile file system, installs the firmware, and resets the switch.

```
switch# copy ftp://10.20.102.98/firmware/latest_mpc volatile:latest_mpc
switch# install all system volatile:latest_mpc
Performing configuration copy.
[#####] 100%
Unpacking image - this may take several seconds...
```

Related Commands	Command	Description
	copy	Copies a file from one location to another.
	show version	Displays software image version information.

interface fc

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interface fc

To configure a Fibre Channel interface, use the **interface fc** command in configuration mode. This will place the switch in the interface configuration submode.

interface fc 1/port[- portn]

Syntax Description	<p><i>port</i> Specifies a port number or the first port number in a range from 1 to 20.</p> <p><i>portn</i> Specifies the second port in the range from 1 to 20.</p>
---------------------------	---

Defaults Disabled.

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines You can specify a range of interfaces by entering a command with the following example format:

interfacespacefc space1/1space-space5

Use the **no shutdown** command to enable the interface.

Examples The following example configures ports 1 to 4.

```
switch# config
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# int fc 1/1 - 4
```

The following example enables the Fibre Channel interface.

```
switch# config
switch(config)# interface fc 1/1
switch(config-if)# no shutdown
```

Related Commands

Command	Description
show interface	Displays an interface configuration for a specified interface.
shutdown	Disables and enables an interface.

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interface mgmt

To configure management interface 0 on a switch, use the **interface mgmt** command in configuration mode.

interface mgmt 0

Syntax Description	0 Management interface 0.
Defaults	Disabled.
Command Modes	Configuration
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	When you try to shutdown a management interface (mgmt0), a follow-up message confirms your action before performing the operation. Use the shutdown force command to bypass this confirmation, if required.
Examples	The following example configures the management interface, displays the options available for the configured interface, and exits to configuration mode. <pre>switch# config switch(config)# switch(config)# interface mgmt 0 switch(config-if)# exit switch(config)# </pre>

The following example shuts down the interface without using the **force** option:

```
switch# config
switch(config)#
switch(config)# interface mgmt 0
switch(config-if)# shutdown
Shutting down this interface will drop all telnet sessions.
Do you wish to continue (y/n)? y
```

The following example shuts down the interface using the **force** option:

```
switch# config
switch(config)#
switch(config)# interface mgmt 0
switch(config-if)# shutdown force
switch(config-if)#

```

■ interface mgmt

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Related Commands	Command	Description
	shutdown	Disables and enables an interface.
	show interface mgmt	Displays interface configuration for specified interface.

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ip access-group

To create an access group to use an access list, use the **ip access-group** command in interface configuration submode.

ip access-group *group-name* [in | out]

To negate a previously entered command or revert to factory defaults, use the **no** form of this command.

no ip access-group *group-name* [in | out]

Syntax Description	<p><i>group-name</i> Specifies the IP access-group name. Maximum length is 64 alphanumeric characters and the text is case insensitive.</p> <p>in Specifies that the group is for ingress traffic.</p> <p>out Specifies that the group is for egress traffic.</p>
---------------------------	---

Defaults Groups are created for both ingress and egress traffic.

Command Modes Interface configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The **access-group** command controls access to an interface. Each interface can only be associated with one access list. The access group becomes active on creation.

We recommend creating all rules in an access list, before creating the access group that uses this access list.

If you create an access group before the access-list, all packets in that interface are dropped, because the access list is empty.

The access group configuration for the ingress traffic applies to both local and remote traffic. The access-group configuration for the egress traffic applies only to local traffic. You can create a different access-group for each type of traffic.

Examples The following example creates an access group called SampleName for both the ingress and egress traffic (default).

```
switch# config
switch(config)# interface mgmt 0
switch(config-if)# ip access-group SampleName
```

The following example deletes the access group called NotRequired.

```
switch(config-if)# no ip access-group NotRequired
```

ip access-group

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The following example creates an access group called SampleName (if it does not already exist) for ingress traffic.

```
switch(config-if)# ip access-group SampleName1 in
```

The following example deletes the access group called SampleName for ingress traffic.

```
switch(config-if)# no ip access-group SampleName1 in
```

The following example creates an access group called SampleName (if it does not already exist) for local egress traffic.

```
switch(config-if)# ip access-group SampleName2 out
```

The following example deletes the access group called SampleName for local egress traffic.

```
switch(config-if)# no ip access-group SampleName2 out
```

Related Commands

Command	Description
interface mgmt	Configures the management interface and opens the config-if submode.
ip access-list	Creates IP access control lists.
show ip access-list	Displays the IP-ACL configuration information.

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ip access-list

To configure IP access control lists (ACL), use the **ip access-list** command in configuration mode. The first **ip access-list** command entry creates the ACL. Subsequent **ip access-list** command entries add filters to the ACL definition.

```
ip access-list list-name {deny | permit} ip-protocol
  {src-addr src-wildcard}
  {dest-addr dest-wildcard | operator port-value}
  [operator port port-value]
  [established | icmp-type icmp-value]
  [tos tos-value]
```

To negate a previously entered command or revert to factory defaults, use the **no** form of this command.

```
no ip access-list list-name {deny | permit} ip-protocol
  {src-addr src-wildcard}
  {dest-addr dest-wildcard | operator port-value}
  [operator port port-value]
  [established | icmp-type icmp-value]
  [tos tos-value]
```

Syntax Description	
<i>list-name</i>	Identifies the access control list. <i>list-name</i> is case sensitive and the maximum length is 64 alphanumeric characters.
deny	Denies access if the conditions match.
permit	Provides access if the conditions match.
<i>ip-protocol</i>	Specifies the name or number (integer range from 0 to 255) of an IP protocol. The IP protocol name can be icmp , ip , tcp , or udp .
<i>src-addr</i>	Specifies the network from which the packet is sent. There are two ways to specify the source: <ul style="list-style-type: none"> A 32-bit quantity in four-part, dotted-decimal format A keyword any as an abbreviation for a destination and destination-wildcard of 0.0.0.0 255.255.255.255
<i>src-wildcard</i>	Applies the wildcard bits to the source. Each wildcard bit set to zero indicates that the corresponding bit position in the packet IP address must exactly match the bit value in the corresponding position of the packet IP address. There are two ways to specify the destination wildcard: <ul style="list-style-type: none"> A 32-bit quantity in four-part, dotted-decimal format A keyword any as an abbreviation for a destination and destination-wildcard of 0.0.0.0 255.255.255.255
<i>dest-addr</i>	Specifies the network from which the packet is sent. There are two ways to specify the destination: <ul style="list-style-type: none"> A 32-bit quantity in four-part, dotted-decimal format A keyword any as an abbreviation for a destination and destination-wildcard of 0.0.0.0 255.255.255.255

ip access-list

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<i>dest-wildcard</i>	Applies the wildcard bits to the destination. There are two ways to specify the destination wildcard:
	<ul style="list-style-type: none"> • A 32-bit quantity in four-part, dotted-decimal format • A keyword any as an abbreviation for a destination and destination-wildcard of 0.0.0.0 255.255.255.255
<i>operator</i>	Compares source or destination ports and has the following options: any = Any destination IP eq = Equal source port gt = Greater than and including source port lt = Less than and including source port range port = Source port range <i>port-value</i>
port <i>port-value</i>	Specifies the decimal number (range from 0 to 65,535) or one of the following names to indicate a TCP or UDP port. The TCP port names are: dns, ftp, ftp-data, http, ntp, radius, sftp, smtp, snmp, snmp-trap, ssh, syslog, tacacs-ds, telnet, wbem-http, wbem-https, and www. The UDP port names are: dns, ftp, ftp-data, http, ntp, radius, sftp, smtp, snmp, snmp-trap, ssh, syslog, tacacs-ds, telnet, tftp, wbem-http, wbem-https, and www.
icmp-type <i>icmp-value</i>	Filters ICMP packets by ICMP message type. The range is 0 to 255. The types include: echo, echo-reply, redirect, time-exceeded, traceroute, and unreachable.
established	Indicates an established connection for the TCP protocol. A match occurs if the TCP datagram has the ACK, FIN, PSH, RST, SYN or URG control bits set. The non matching case is that of the initial TCP datagram to form a connection.
tos <itos-value< i=""></itos-value<>	Filters packets by the following type of service level: normal-service (0), monetary-cost (1), reliability (2), throughput (4), and delay (8)

Defaults

Denied.

Command Modes

Configuration

Command History

This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples

The following example configures an IP-ACL called List1 and permits IP traffic from any source address to any destination address.

```
switch# config
switch(config)# ip access-list List1 permit ip any any
```

The following example removes the IP-ACL called List1.

```
switch# config
switch(config)# no ip access-list List1 permit ip any any
```

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The following example updates List1 to deny TCP traffic from any source address to any destination address.

```
switch# config
switch(config)# ip access-list List1 deny tcp any any
```

The following example defines an IP-ACL that permits this network. Subtracting 255.255.248.0 (normal mask) from 255.255.255.255 yields 0.0.7.255.

```
switch# config
switch(config)# ip access-list List1 permit udp 192.168.32.0 0.0.7.255
```

The following example permits all IP traffic from and to the specified networks.

```
switch# config
switch(config)# ip access-list List1 permit ip 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255
```

The following example denies TCP traffic from 10.2.3.0 through source port 5 to any destination.

```
switch# config
switch(config)# ip access-list List2 deny tcp 10.2.3.0 0.0.0.255 eq port 5 any
```

The following example removes this entry from the IP-ACL.

```
switch# config
switch(config)# no ip access-list List2 deny tcp 10.2.3.0 0.0.0.255 eq port 5 any
```

The following example creates an access group called List1 for both the ingress and egress traffic (default).

```
switch# config
switch(config)# interface mgmt0
switch(config-if)# ip access-group List1
```

The following example deletes the access group called NotRequired.

```
switch# config
switch(config)# interface mgmt0
switch(config-if)# no ip access-group NotRequired
```

Related Commands

Command	Description
ip access-group	Creates an IP access group.
show ip access-list	Displays the IP-ACL configuration information.

ip address

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ip address

To assign an IP address to the Ethernet management port, use the **ip address** command in interface configuration submode. Enter the **interface mgmt** command to open the config-if submode.

ip address *address netmask*

To remove the IP address, use the **no** form of this command.

no ip address *address netmask*

Syntax Description	<table border="0"> <tr> <td><i>address</i></td><td>Specifies the IP address.</td></tr> <tr> <td><i>netmask</i></td><td>Specifies the network mask.</td></tr> </table>	<i>address</i>	Specifies the IP address.	<i>netmask</i>	Specifies the network mask.
<i>address</i>	Specifies the IP address.				
<i>netmask</i>	Specifies the network mask.				

Defaults	The IP address default is 10.0.0.1. The network mask default is 255.0.0.0.
-----------------	--

Command Modes	Interface configuration
----------------------	-------------------------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	<pre>switch# config switch(config)# interface mgmt 0 switch(config-if)# ip address 10.5.1.1 255.255.0.0</pre>
-----------------	---

Related Commands	Command	Description
	interface mgmt	Configures the management interface and opens the config-if submode.
	show interface	Displays information about an interface.

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ip default-gateway

To configure the IP address of the default gateway, use the **ip default-gateway** command in configuration mode.

ip default-gateway *destination-ip-address*

To disable the IP address of the default gateway, use the **no** form of this command.

no ip default-gateway *destination-ip-address*

Syntax Description	<i>destination-ip-address</i> Specifies the IP address of the default gateway.				
Defaults	10.0.0.254				
Command Modes	Configuration				
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Examples	The following examples configures the IP default gateway to 10.1.1.4. switch# config switch(config)# ip default-gateway 10.1.1.4				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show ip route</td><td>Displays the IP address of the default gateway.</td></tr> </tbody> </table>	Command	Description	show ip route	Displays the IP address of the default gateway.
Command	Description				
show ip route	Displays the IP address of the default gateway.				

logging level

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logging level

To modify message logging facilities, use the **logging level** command in configuration mode.

logging level all *severity-level*

To negate the previously entered command or to revert to factory defaults, use the **no** form of this command.

no logging level all *severity-level*

Syntax Description	all Specifies all message facilities: authorization system, fcdomain syslog, name server, FCS, FSPF syslog, IP configuration, module manager syslog, NTP syslog, port syslog, System Manager syslog, User Process, and zone server. <i>severity-level</i> Specifies the maximum severity of messages logged. The range is 0 to 7, where
	<ul style="list-style-type: none"> • 0 is emergency • 1 is alert • 2 is critical • 3 is error • 4 is warning • 5 is notify • 6 is informational • 7 is debugging

Defaults The default severity level is critical (2).

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The switch logs messages at or above the configured severity level.

Examples Configures the logging level at level 4 (warning). As a result, logging messages with a severity level of 4 or above will be displayed.

```
switch# config
switch(config)# logging level all 4
```

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logging monitor

To set monitor message logging, use the **logging monitor** command in configuration mode.

logging monitor *severity level*

To negate the previously entered command or to revert to factory defaults, use the **no** form of the command.

no logging monitor *severity level*

Syntax Description	<i>severity level</i>	Severity level. The range is 0 to 7, where <ul style="list-style-type: none"> • 0 is emergency • 1 is alert • 2 is critical • 3 is error • 4 is warning • 5 is notify • 6 is informational • 7 is debugging 				
Defaults		Severity level: 0 - emergency; 1 - alert				
Command Modes		Configuration				
Command History		This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).				
Examples		The following example sets terminal line (monitor) message logging at level 2. <pre>switch# config switch(config)# logging monitor 2</pre>				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show logging</td> <td>Displays logging configuration information.</td> </tr> </tbody> </table>	Command	Description	show logging	Displays logging configuration information.	
Command	Description					
show logging	Displays logging configuration information.					

logging server

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logging server

To set the IP address of the remote message logging server, use the **logging server** command in configuration mode.

logging server *ip address*

To negate the previously entered command or to revert to factory defaults, use the **no** form of this command.

no logging server *ip address*

Syntax Description	<i>ip address</i>	Enters the IP address for the remote server.				
Defaults	10.0.0.254					
Command Modes	Configuration					
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).					
Examples	Change the IP address of the remote message logging server to 10.20.30.40. switch# config switch(config)# logging sever 10.20.30.40					
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show logging</td> <td>Displays logging configuration information.</td> </tr> </tbody> </table>		Command	Description	show logging	Displays logging configuration information.
Command	Description					
show logging	Displays logging configuration information.					

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move

To move a file to another filename, use the **move** command in EXEC mode.

move *source destination*

Syntax Description	
<i>source</i>	The source file to be moved. Sources can be bootflash:filename or volatile:filename .
<i>destination</i>	The destination filename. Destinations can be bootflash:filename or volatile:filename
<i>filename</i>	The name of the source or destination file.

Defaults The default source or destination file system is the current file system, bootflash: or volatile:.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example moves latest_mpc from the bootflash file system to the volatile file system.

```
switch# move bootflash:latest_mpc volatile:latest_mpc
```

Related Commands

cd	Changes the default file system.
copy	Copies a file to a new location.
dir	Displays a list of files on a file system.

ntp server

Send documentation comments to mdsfeedback-doc@cisco.com.

ntp server

To configure a Network Time Protocol (NTP) server, use the **ntp server** command in configuration mode.

ntp server *ip-address*

Syntax Description	<i>ip-address</i>	The IP address of the NTP server.
Defaults	0.0.0.0.	
Command Modes	Configuration	
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).	
Examples	This example forms a server association with a server. switch(config)# ntp server 10.10.10.10 switch(config)#	

Send documentation comments to mdsfeedback-doc@cisco.com.

ping

To diagnose basic network connectivity, use the **ping** (packet internet groper) command in EXEC mode.

ping *ip-address*

Syntax Description	<i>ip-address</i> IP address of system to ping.
Defaults	No default behavior or values.
Command Modes	EXEC
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	<p>The ping program sends an echo request packet to an address, and then awaits a reply. The ping output can help you evaluate path-to-host reliability, delays over the path, and whether the host can be reached or is functioning.</p> <p>Verify connectivity to the TFTP server using the ping command.</p> <p>To abnormally terminate a ping session, type the Ctrl-C escape sequence</p>
Examples	<p>The following example pings system 192.168.7.27.</p> <pre>switch# ping 192.168.7.27 PING 192.168.7.27 (192.168.7.27): 10 data bytes 18 bytes from 192.168.7.27: icmp_seq=0 ttl=64 time=0.5 ms --- 192.168.7.27 ping statistics --- 1 packets transmitted, 1 packets received, 0% packet loss round-trip min/avg/max = 0.5/0.5/0.5 ms</pre>

radius-server host

Send documentation comments to mdsfeedback-doc@cisco.com.

radius-server host

To configure RADIUS server, use the **radius-server host** command in configuration mode.

```
radius-server host {server-name | ip-address}
  [key shared-secret] [accounting]
  [auth-port port-number] [authentication]
  [retransmit count] [timeout seconds [retransmit count]]
```

To revert to the factory defaults, use the **no** form of this command.

```
no radius-server host {server-name | ip-address}
  [key shared-secret] [accounting]
  [auth-port port-number] [authentication]
  [retransmit count] [timeout seconds [retransmit count]]
```

Syntax	Description
<i>server-name</i>	Specifies the RADIUS server DNS name. Maximum length is 256 characters.
<i>ip-address</i>	Specifies the RADIUS server IP address.
auth-port <i>port-number</i>	Configures the RADIUS server port for authentication
authentication	Use for authentication.
accounting	Use for accounting.
key	RADIUS server shared key.
<i>shared-secret</i>	Configures a preshared key to authenticate communication between the RADIUS client and server. <i>shared-secret</i> must be exactly 16 characters
retransmit <i>count</i>	Configures the number of times the switch tries to connect to a RADIUS server(s) before reverting to local authentication. The range is 1 to five times and the default is 1 time.
timeout <i>seconds</i>	Specifies the time (in seconds) between retransmissions to the RADIUS server. The default is 1 second and the valid range is 1 to 60 seconds.

Defaults No default behavior or values.

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Send documentation comments to mdsfeedback-doc@cisco.com.

Examples

The following example configures RADIUS server authentication parameters.

```
switch# config t
switch(config)# radius-server host 10.10.2.3 key HostKey
switch(config)# radius-server host 10.10.2.3 auth-port 2003
switch(config)# radius-server host 10.10.2.3 accounting
switch(config)# radius-server host radius2 key abcdefgh01234567
```

Related Commands

Command	Description
show radius-server	Displays RADIUS server information.

reload

Send documentation comments to mdsfeedback-doc@cisco.com.

reload

To reboot the switch, use the **reload** command in EXEC mode.

reload

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example uses the **reload** command to reboot the system.

```
switch# reload
This command will reboot the system. (y/n)? y
```

Related Commands

Command	Description
install	Installs a new software image.
copy	Copies a file from one location to another.

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run-script

To execute the commands specified in a file, use the **run-script** command in EXEC mode.

run-script [filename | running-config | startup-config | volatile:filename | bootflash:filename]

Syntax Description	<i>filename</i> Name of the file containing the commands.
running-config	Specifies the configuration currently running on the switch.
startup-config	Specifies the configuration used during initialization (startup).
volatile:	Location for volatile file system.
bootflash:	Location for the bootflash file system.

Defaults Uses the current default file system.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines You must create the script file on an external host, then use the **copy ftp** or **copy tftp** command to download the file to the volatile or bootflash file system.

Send documentation comments to mdsfeedback-doc@cisco.com.**Examples**

The file, testfile, contains the following commands:

```
conf t
interface fc 1/1
no shutdown
end
sh interface fc1/1
```

The following example executes the CLI commands specified in the testfile.

```
switch# run-script testfile
'conf t'
Enter configuration commands, one per line. End with CNTL/Z.

'interface fc 1/1'

'no shutdown'

'end'

'sh interface fc1/1'
fc1/1 is Down (Administratively down)
Hardware is Fibre Channel, SFP is long wave laser
Port WWN is 20:00:00:0d:ec:19:cb:0e
Admin port mode is auto
Receive data field Size is 2112
Beacon is turned off
5 minutes input rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
5 minutes output rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
    0 frames input, 0 bytes
    0 discards, 0 errors
    0 CRC
    0 too long, 0 too short
    0 frames output, 0 bytes
    0 errors
    0 input OLS, 0 LRR, 0 loop init
```

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setup

To enter the switch setup mode, use the **setup** command in EXEC mode.

```
setup
```

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The setup utility guides you through the basic configuration process. Type **Ctrl-c** at any prompt to skip the remaining configuration options and proceed with what is configured until that point.

If you do not wish to answer a previously-configured question, or if you wish to skip answers to any questions press **Enter**. If a default answer is not available (for example switch name), the switch uses what is previously configured and skips to the next question.

Examples The following example shows how to enter switch setup mode.

```
switch# setup
---- Basic System Configuration Dialog ----
This setup utility will guide you through the basic configuration of
the system. Setup configures only enough connectivity for management
of the system.
```

*Note: setup is mainly used for configuring the system initially, when no configuration is present. So setup always assumes system defaults and not the current system configuration values.

Press Enter if you want to skip any dialog. Use ctrl-c at anytime
to skip all remaining dialogs.

Would you like to enter the basic configuration dialog (yes/no): **yes**

Create another login account (yes/no) [n]: **yes**

Enter the user login ID: **user_name**

Enter the password for **user_name**: **user-password**

Enter the user role [network-operator]:**network_admin**

Configure read-only SNMP community string (yes/no) [n]: **yes**

SNMP community string: **snmp_community**

setup

Send documentation comments to mdsfeedback-doc@cisco.com.

```
Enter the switch name: switch_name

Continue with Out-of-band (mgmt0) management configuration? [yes/no]: yes

Mgmt0 IP address: ip_address

Mgmt0 IP netmask: subnet_mask

Configure the default-gateway: (yes/no) [y]: yes

IP address of the default-gateway: default_gateway

Enable the telnet service? (yes/no) [y]: yes

Enabled SSH service? (yes/no) [n]: no

Configure NTP server? (yes/no) [n]: no

Configure default switchport interface state (shut/noshut) [shut]: noshut

Configure default zone policy (permit/deny) [deny]: deny

The following configuration will be applied:
username admin password admin_pass role network-admin
switchname switch
interface mgmt0
    ip address ip_address subnet_mask
    ip default-gateway 10.0.0.254
    telnet server enable
    no ssh server enable
    no system default switchport shutdown
    no zone default-zone permit

Would you like to edit the configuration? (yes/no) [n]: no

Use this configuration and save it? (yes/no) [y]: yes
```

Send documentation comments to mdsfeedback-doc@cisco.com.

show accounting log

To display the accounting log contents, use the **show accounting log** command in EXEC mode.

show accounting log

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show accounting log** command.

```
switch# show accounting log
[1][Mon Apr 25 11:01:59.888 UTC 2005][AU][0000.00FF][None][Zoning Default Zone changed
in Config default to False]
[2][Mon Apr 25 11:02:03.228 UTC 2005][AU][0000.0001][None][IP Unknown User
admin@OB-session1 User Login]
[3][Mon Apr 25 11:02:07.376 UTC 2005][AU][0000.0001][None][IP Unknown User
snmp@IB-session2 User Login]
[4][Mon Apr 25 11:02:07.379 UTC 2005][AU][0000.0001][None][IP Unknown User
snmp@OB-session3 User Login]
[5][Mon Apr 25 15:58:40.548 UTC 2005][AU][0000.0001][None][IP 10.20.33.160 User
admin@OB-session4 User Login]
[6][Mon Apr 25 16:08:38.188 UTC 2005][AU][0000.0001][None][IP 10.20.32.70 User
admin@OB-session5 User Login]
```

■ show accounting logsize

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show accounting logsize

To display maximum size of the accounting log file, use the **show accounting logsize** command in EXEC mode.

show accounting logsize

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show accounting logsize** command.

```
switch# show accounting logsize
maximum local accounting logentries: 1200
```

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show clock

To display the system date and time and verify the time zone configuration, use the **show clock** command in EXEC mode.

show clock

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show clock** command..

```
switch# show clock
Fri Apr 22 00:00:49 CDT 2005
```

 show environment

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show environment

To display all environment-related switch information, use the **show environment** command in EXEC mode.

show environment [power | temperature]

Syntax Description	power Displays status of power supply module, power supply redundancy mode and power usage summary. temperature Displays switch temperature thresholds and alarm status of temperature sensors.
---------------------------	--

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following is sample output from the show environment command.
-----------------	--

```
switch# show environment
Temperature:
-----
Module    CurTemp      Status
          (Celsius)
-----
1          36           ok

Power Supply:
-----
PS        Status
-----
1          ok
```

Related Commands	Command	Description
	show hardware	Displays all hardware components on a system.

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show fcalias

To display the member name information in a Fibre Channel alias (fcalias), use the **show fcalias** command in EXEC mode.

show fcalias [name *fcalias-name*]

Syntax Description	name <i>fcalias-name</i> Displays fcalias information for a specific name. The maximum length is 64.
---------------------------	---

Defaults	Displays a list of all global fcaliases.
-----------------	--

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Usage Guidelines	To make use of fcaliases as device names instead of using the cryptic device name, add only one member per fcalias.
-------------------------	---

Examples	The following is sample output from the show fcalias command.
-----------------	--

```
switch# show fcalias
fcalias name Alias2

fcalias name Alias1
  pwwn 21:00:00:20:37:6f:db:dd
  pwwn 21:00:00:20:37:9c:48:e5
```

Related Commands	Command	Description
	fcalias name	Configures fcalias names.

show fcdomain

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show fcdomain

To display the Fibre Channel domain (fcdomain) information for the local switch or for all switches in the fabric, use the **show fcdomain** command in EXEC mode.

show fcdomain [domain-list]

Syntax Description	domain-list	Displays list of domain ids granted by the principal switch for all switches in the fabric.
Defaults		Displays domain information for the local switch.
Command Modes	EXEC	
Command History		This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Examples	The following is sample output from the show fcdomain command.	
	<pre>switch# show fcdomain The local switch is the Principal Switch. Local switch run time information: Local switch WWN: 10:00:00:0d:ec:19:cb:0e Running fabric name: 10:00:00:0d:ec:19:cb:0e Running priority: 128 Current domain ID: 0x69(105) Local switch configuration information: Configured fabric name: Configured priority: 128 Configured domain ID: 0x0(0) (preferred) Principal switch run time information: Running priority: 128</pre>	

The following is sample output from the **show fcdomain domain-list** command.

```
switch# show fcdomain domain-list
VSAN 1
Number of domains: 1
Domain ID          WWN
-----
0x69(105)   10:00:00:0d:ec:19:cb:0e [Local] [Principal]
```

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show fcns database

To display the results of the discovery, or to display the name server database, use the **show fcns database** command in EXEC mode.

show fcns database [detail | domain *domain-id* | fcid *fcid-id*]

Syntax Description	detail Displays all objects in each entry. domain <i>domain-id</i> Displays entries in a domain. fcid <i>fcid-id</i> Displays entry for the given port.
Defaults	No default behavior or values.
Command Modes	EXEC
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	The discovery can take several minutes to complete, especially if the fabric is large fabric or if several devices are slow to respond.

show fcns database

Send documentation comments to mdsfeedback-doc@cisco.com.

Examples

The following is sample output from the **show fcns database detail** command.

```
switch# show fcns database detail

-----
FCID:0x0101e1
-----
port-wwn (vendor) : 21:00:00:20:37:d9:4f:66 ()
node-wwn : 20:00:00:20:37:d9:4f:66
class : 3
node-ip-addr : 0.0.0.0
fc4-types:fc4_features : FCP
symbolic-port-name : (NULL)
symbolic-node-name : (NULL)
port-type : NL
port-ip-addr : 0.0.0.0
fabric-port-wwn : 20:01:00:c0:dd:06:fc:00
-----
FCID:0x0101e2
-----
port-wwn (vendor) : 21:00:00:20:37:d9:4d:61 ()
node-wwn : 20:00:00:20:37:d9:4d:61
class : 3
node-ip-addr : 0.0.0.0
fc4-types:fc4_features : FCP
symbolic-port-name : (NULL)
symbolic-node-name : (NULL)
port-type : NL
port-ip-addr : 0.0.0.0
fabric-port-wwn : 20:01:00:c0:dd:06:fc:00
-----
FCID:0x0101e4
-----
port-wwn (vendor) : 21:00:00:20:37:d9:4a:fa ()
node-wwn : 20:00:00:20:37:d9:4a:fa
class : 3
node-ip-addr : 0.0.0.0
fc4-types:fc4_features : FCP
symbolic-port-name : (NULL)
symbolic-node-name : (NULL)
port-type : NL
port-ip-addr : 0.0.0.0
fabric-port-wwn : 20:01:00:c0:dd:06:fc:00
-----
FCID:0x0101e8
-----
port-wwn (vendor) : 21:00:00:20:37:d9:4c:02 ()
node-wwn : 20:00:00:20:37:d9:4c:02
class : 3
node-ip-addr : 0.0.0.0
fc4-types:fc4_features : FCP
symbolic-port-name : (NULL)
symbolic-node-name : (NULL)
port-type : NL
port-ip-addr : 0.0.0.0
fabric-port-wwn : 20:01:00:c0:dd:06:fc:00
```

Send documentation comments to mdsfeedback-doc@cisco.com.

The following is sample output from the **show fcns database domain** command

```
switch# show fcns database domain 1
-----
FCID TYPE PWWN (VENDOR) FC4-TYPE:FEATURE
-----
0x0101e1 NL 21:00:00:20:37:d9:4f:66 FCP
0x0101e2 NL 21:00:00:20:37:d9:4d:61 FCP
0x0101e4 NL 21:00:00:20:37:d9:4a:fa FCP
0x0101e8 NL 21:00:00:20:37:d9:4c:02 FCP
Total number of entries = 4
```

■ show fcs database

Send documentation comments to mdsfeedback-doc@cisco.com.

show fcs database

To display the status of the fabric configuration, use the **show fcs database** command in EXEC mode.

show fcs database

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show fcs database** command.

```
switch# show fcs database
FCS Local Database
-----
Switch WWN      : 1000000dec19cb0e
Switch Domain Id : 105
Fabric-Name     :
Switch Logical-Name : switch
Switch Ports:
-----
Interface   fWWN           Type    Attached-pWWNs
-----
fc1/1        20:00:00:0d:ec:19:cb:0e  Unknown  None
fc1/2        20:01:00:0d:ec:19:cb:0e  Unknown  None
fc1/3        20:02:00:0d:ec:19:cb:0e  Unknown  None
fc1/4        20:03:00:0d:ec:19:cb:0e  Unknown  None
fc1/5        20:04:00:0d:ec:19:cb:0e  Unknown  None
fc1/6        20:05:00:0d:ec:19:cb:0e  Unknown  None
fc1/7        20:06:00:0d:ec:19:cb:0e  Unknown  None
fc1/8        20:07:00:0d:ec:19:cb:0e  Unknown  None
fc1/9        20:08:00:0d:ec:19:cb:0e  Unknown  None
fc1/10       20:09:00:0d:ec:19:cb:0e  Unknown  None
fc1/11       20:0a:00:0d:ec:19:cb:0e  Unknown  None
fc1/12       20:0b:00:0d:ec:19:cb:0e  Unknown  None
fc1/13       20:0c:00:0d:ec:19:cb:0e  Unknown  None
fc1/14       20:0d:00:0d:ec:19:cb:0e  Unknown  None
fc1/15       20:0e:00:0d:ec:19:cb:0e  Unknown  None
fc1/16       20:0f:00:0d:ec:19:cb:0e  Unknown  None
fc1/17       20:10:00:0d:ec:19:cb:0e  Unknown  None
fc1/18       20:11:00:0d:ec:19:cb:0e  Unknown  None
fc1/19       20:12:00:0d:ec:19:cb:0e  Unknown  None
fc1/20       20:13:00:0d:ec:19:cb:0e  Unknown  None
```

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show fctimer

To view the Fibre Channel timers (fctimer), use the **show fctimer** command in EXEC mode.

show fctimer [d_s_tov | e_d_tov | f_s_tov | r_a_tov]

Syntax Description	d_s_tov Displays the distributed services time out value (D_S_TOV) in milliseconds. e_d_tov Displays the error detection time out value (E_D_TOV) in milliseconds. f_s_tov Displays the fabric stability time out value (F_S_TOV) in milliseconds. r_a_tov Displays the resource allocation time out value (R_A_TOV) in milliseconds.
---------------------------	--

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following is sample output from the show fctimer command.
-----------------	--

```
switch# show fctimer
F_S_TOV    D_S_TOV    E_D_TOV    R_A_TOV
-----
5000 ms    5000 ms    2000 ms    10000 ms
```

Related Commands	Command	Description
	fctimer	Configures fctimer parameters.

■ show fdmi database

Send documentation comments to mdsfeedback-doc@cisco.com.

show fdmi database

To display the Fabric-Device Management Interface (FDMI) database information, use the **show fdmi database** command in EXEC mode.

show fdmi database [detail]

Syntax Description	detail	Specifies detailed FDMI information.
Defaults		No default behavior or values.
Command Modes		EXEC
Command History		This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Examples		The following is sample output from the show fdmi database command.

```
switch# show fdmi database
Registered HBA List
 10:00:00:00:c9:32:8d:77
 21:01:00:e0:8b:2a:f6:54
```

Send documentation comments to mdsfeedback-doc@cisco.com.

The following is sample output from the **show fdmi database detail** command.

```
switch# show fdmi database detail
Registered HBA List
-----
HBA-ID: 10:00:00:00:c9:32:8d:77
-----
Node Name      :20:00:00:00:c9:32:8d:77
Manufacturer   :Emulex Corporation
Serial Num    :0000c9328d77
Model          :LP9002
Model Description:Emulex LightPulse LP9002 2 Gigabit PCI Fibre Channel Adapter
Hardware Ver   :2002606D
Driver Ver     :SLI-2 SW_DATE:Feb 27 2003, v5-2.20a12
ROM Ver        :3.11A0
Firmware Ver   :3.90A7
OS Name/Ver    :Window 2000
CT Payload Len:1300000
Port-id: 10:00:00:00:c9:32:8d:77
-----
HBA-ID: 21:01:00:e0:8b:2a:f6:54
-----
Node Name      :20:01:00:e0:8b:2a:f6:54
Manufacturer   :QLogic Corporation
Serial Num    :`74262
Model          :QLA2342
Model Description:QLogic QLA2342 PCI Fibre Channel Adapter
Hardware Ver   :FC5010409-10
Driver Ver     :8.2.3.10 Beta 2 Test 1 DBG (W2K VI)
ROM Ver        :1.24
Firmware Ver   :03.02.13.
OS Name/Ver    :500
CT Payload Len:2040
Port-id: 21:01:00:e0:8b:2a:f6:54
```

 show flogi database

Send documentation comments to mdsfeedback-doc@cisco.com.

show flogi database

To list all the FLOGI sessions, use the **show flogi database** command in EXEC mode.

show flogi database

Syntax Description This command had no arguments or keywords.

Defaults Displays the entire FLOGI database.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines In a Fibre Channel fabric, each host or disk requires an FC ID. Use the **show flogi database** command to verify if a storage device is displayed in the Fabric login (FLOGI) table as in the examples below. If the required device is displayed in the FLOGI table, the fabric login is successful. Examine the FLOGI database on a switch that is directly connected to the host HBA and connected ports.

Examples The following is sample output from the **show flogi database** command.

```
switch# show flogi database
-----
INTERFACE FCID PORT NAME NODE NAME
-----
fc1/2 0x6101e1 21:00:00:04:cf:03:36:2f 20:00:00:04:cf:03:36:2f
fc1/2 0x6101e2 21:00:00:04:cf:03:38:6e 20:00:00:04:cf:03:38:6e
fc1/2 0x6101e4 21:00:00:04:cf:03:38:24 20:00:00:04:cf:03:38:24
fc1/2 0x6101e8 21:00:00:04:cf:03:38:4b 20:00:00:04:cf:03:38:4b
Total number of flogi = 4
```

Related Commands

Command	Description
show fcns database	Displays all the local and remote name server entries

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show fspf

To display global FSPF information, use the **show fspf** command in EXEC mode.

show fspf [interface]

Syntax Description	interface Displays FSPF interface information for all interfaces.
Defaults	No default behavior or values.
Command Modes	EXEC
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	FSPF information includes: <ul style="list-style-type: none"> • the domain number of the switch • the autonomous region for the switch • Min_LS_arrival: the minimum time that must elapse before the switch accepts LSR updates • LS_refresh_time: the interval lapse between refresh LSR transmissions • Max_age: the maximum time a LSR can stay before being deleted
Examples	The following is sample output from the show fspf command. <pre>switch# show fspf FSPF routing administration status is enabled FSPF routing operational status is UP MinLsArrival = 1000 msec , MinLsInterval = 5000 msec Local Domain is 0x69(105) Number of LSRs = 0 Protocol constants : LS_REFRESH_TIME = 30 minutes (1800 sec) MAX_AGE = 60 minutes (3600 sec) Statistics counters : Number of LSR that reached MaxAge = 0 Number of SPF computations = 0 Number of Checksum Errors = 0 Number of Transmitted packets : LSU 0 LSA 0 Hello 0 Retransmitted LSU 0 Number of Received packets : LSU 0 LSA 0 Hello 0 Error Packets 0</pre>

show fspf

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The following is sample output from the **show fspf interface** command.

```
switch# show fspf interface

FSPF interface fc1/1
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0   LSA 0   Hello 0   Error packets 0
    Number of packets transmitted : LSU 0   LSA 0   Hello 0   Retransmitted LSU 0

FSPF interface fc1/2
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0   LSA 0   Hello 0   Error packets 0
    Number of packets transmitted : LSU 0   LSA 0   Hello 0   Retransmitted LSU 0

FSPF interface fc1/3
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0   LSA 0   Hello 0   Error packets 0
    Number of packets transmitted : LSU 0   LSA 0   Hello 0   Retransmitted LSU 0

FSPF interface fc1/4
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0   LSA 0   Hello 0   Error packets 0
    Number of packets transmitted : LSU 0   LSA 0   Hello 0   Retransmitted LSU 0

FSPF interface fc1/5
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0   LSA 0   Hello 0   Error packets 0
    Number of packets transmitted : LSU 0   LSA 0   Hello 0   Retransmitted LSU 0

FSPF interface fc1/6
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
```

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```

Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/7
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/8
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/9
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/10
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/11
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/12
FSPF routing administrative state is active
Interface cost is 0

```

show fspf

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```

Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/13
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/14
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/15
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/16
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/17
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
  Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
  Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/18

```

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```
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/19
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0

FSPF interface fc1/20
FSPF routing administrative state is active
Interface cost is 0
Timer intervals configured, Hello 20 s, Dead 80 s, Retransmit 5 s
FSPF State is DOWN
Neighbor Domain Id is 0x0(0), Neighbor Interface index is 0x00000000

Statistics counters :
    Number of packets received : LSU 0  LSA 0  Hello 0  Error packets 0
    Number of packets transmitted : LSU 0  LSA 0  Hello 0  Retransmitted LSU 0
```

show hardware

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show hardware

To display switch hardware inventory details, use the **show hardware** command in EXEC mode.

show hardware

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show hardware** command

```

switch# show hardware
Cisco MDS 9000 FabricWare
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Software
    system: 2.1(2)
    system compile time: Thu Apr 21 12:48:49 2005

Hardware
    switch uptime is 0 days 5 hours 44 minute(s) 42 second(s)
    Last reset at 20682 usecs after Mon Apr 25 11:01:12 2005
    Reason: PowerUp

-----
Switch hardware ID information
-----

MDS Switch is booted up
    Model number is DS-C9020-20K9
    H/W version is -----
    Part Number is 74-3811-01
    Part Revision is A0
    Serial number is 0426a07855
    CLEI code is COMMM00ARA

```

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show interface

You can check the status of an interface at any time by using the **show interface** command in EXEC mode.

show interface {[brief] | counters [brief] | description | fc 1/port [brief] | mgmt 0 | transceiver}

Syntax Description

brief	Displays brief information.
counters	Displays the interface counter information.
description	Displays the interface description.
fc	Displays interface information for all ports.
1/port	Specifies slot 1 and the port number. The port number is in the range 1 to 20.
mgmt 0	Displays management interface 0 information.
transceiver	Displays the transceiver information for all interfaces.

Defaults

Displays information for all interfaces on the switch.

Command Modes

EXEC

Command History

This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples

The following is sample output from the **show interface fc** command.

```
switch# show interface fc 1/11
fc1/11 is Down (Administratively down)
    Port WWN is 20:0a:00:0d:ec:19:cb:0e
    Admin port mode is auto
    Receive data field Size is 2112
    Beacon is turned off
    5 minutes input rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
    5 minutes output rate 0 bits/sec, 0 bytes/sec, 0 frames/sec
        0 frames input, 0 bytes
        0 discards, 0 errors
        0 CRC
        0 too long, 0 too short
        0 frames output, 0 bytes
        0 errors
    0 input OLS, 0 LRR, 0 loop inits
    5 output OLS, 0 LRR, 1 loop inits
```

show interface

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The following is sample output from the **show interface description** command.

```
switch# show interface description
-----
Interface Description
-----
fc1/1      fc1/1
fc1/2      fc1/2
fc1/3      fc1/3
fc1/4      fc1/4
fc1/5      fc1/5
fc1/6      fc1/6
fc1/7      fc1/7
fc1/8      fc1/8
fc1/9      fc1/9
fc1/10     fc1/10
fc1/11     fc1/11
fc1/12     fc1/12
fc1/13     fc1/13
fc1/14     fc1/14
fc1/15     fc1/15
fc1/16     fc1/16
fc1/17     fc1/17
fc1/18     fc1/18
fc1/19     fc1/19
fc1/20     fc1/20
```

The following is sample output from the **show interface brief** command.

```
switch# show interface brief
-----
Interface Admin      Status          FCOT   Oper      Oper
Mode           Mode           Mode           Speed
                                         (Gbps)
-----
fc1/1      auto      down        lwl    --      --
fc1/2      auto      down        swl    --      --
fc1/3      auto      down        --    --      --
fc1/4      auto      down        --    --      --
fc1/5      auto      down        --    --      --
fc1/6      auto      down        --    --      --
fc1/7      auto      down        --    --      --
fc1/8      auto      down        --    --      --
fc1/9      auto      down        swl    --      --
fc1/10     auto      down        --    --      --
fc1/11     auto      down        --    --      --
fc1/12     auto      down        --    --      --
fc1/13     auto      down        unk    --      --
fc1/14     auto      down        --    --      --
fc1/15     auto      down        --    --      --
fc1/16     auto      down        swl    --      --
fc1/17     auto      down        --    --      --
fc1/18     auto      down        --    --      --
fc1/19     auto      down        --    --      --
fc1/20     auto      down        elec   --      --

-----
Interface          Status       IP Address
-----
mgmt0            up         10.20.83.122
```

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The following is sample output from the **show interface counters brief** command.

Interface	Input (rate is 5 min avg)		Output (rate is 5 min avg)	
	Rate MB/s	Total Frames	Rate MB/s	Total Frames
fc1/1	0	0	0	0
fc1/2	0	0	0	0
fc1/3	0	0	0	0
fc1/4	0	0	0	0
fc1/5	0	0	0	0
fc1/6	0	0	0	0
fc1/7	0	0	0	0
fc1/8	0	0	0	0
fc1/9	0	0	0	0
fc1/10	0	0	0	0
fc1/11	0	0	0	0
fc1/12	0	0	0	0
fc1/13	0	0	0	0
fc1/14	0	0	0	0
fc1/15	0	0	0	0
fc1/16	0	0	0	0
fc1/17	0	0	0	0
fc1/18	0	0	0	0
fc1/19	0	0	0	0
fc1/20	0	0	0	0

show interface

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The following is sample output from the **show interface transceiver** command.

```
switch# show interface transceiver
fc1/1 sfp is present but not supported
  name is FINISAR CORP.
  part number is FTRJ-8519-3-2.5
  revision is X1
  serial number is E113LSF
  vendor specific data (bytes 96-127)
    0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF
    0xFF 0xFF 0xFF 0xFF 0x00 0x00 0x00
    0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00
    0x00 0x00 0xFF 0xFF 0xFF 0xA7 0xCE

fc1/2 sfp is present but not supported
  name is FINISAR CORP.
  part number is FTRJ-8519-3-2.5
  revision is X1
  serial number is H112UZ3
  vendor specific data (bytes 96-127)
    0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF
    0xFF 0xFF 0xFF 0xFF 0x00 0x00 0x00
    0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00
    0x00 0x00 0xFF 0xFF 0xFF 0xA7 0xCE

fc1/3 sfp is not present
fc1/4 sfp is not present
fc1/5 sfp is not present
fc1/6 sfp is not present
fc1/7 sfp is not present
fc1/8 sfp is not present
fc1/9 sfp is present but not supported
  name is FINISAR CORP.
  part number is FTRJ8524P2BNL
  revision is A
  serial number is P6G2333
  vendor specific data (bytes 96-127)
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

fc1/10 sfp is not present
fc1/11 sfp is not present
fc1/12 sfp is not present
fc1/13 sfp is present but not supported
  name is
  part number is
  revision is
  serial number is
  vendor specific data (bytes 96-127)
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
    0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00

fc1/14 sfp is not present
fc1/15 sfp is not present
fc1/16 sfp is present but not supported
  name is FINISAR CORP.
  part number is FTRJ-8519-3-2.5
  revision is X1
  serial number is E113GL5
  vendor specific data (bytes 96-127)
```

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```
0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0xFF  
0xFF 0xFF 0xFF 0xFF 0x00 0x00 0x00 0x00  
0xFF 0xFF 0xFF 0xFF 0xFF 0xFF 0x00 0x00  
0x00 0x00 0xFF 0xFF 0xFF 0xA7 0xCE  
  
fc1/17 sfp is not present  
fc1/18 sfp is not present  
fc1/19 sfp is not present  
fc1/20 sfp is present but not supported  
    name is Molex Inc.  
    part number is 74720-0502  
    revision is D  
    serial number is 33281334  
    vendor specific data (bytes 96-127)  
        0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00  
        0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00  
        0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00  
        0x00 0x00 0x00 0x00 0x00 0x00 0x00 0x00
```

show ip access-list

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show ip access-list

To display the IP access control lists (IP-ACLs) currently active, use the **show ip access-list** command in EXEC mode.

show ip access-list [list-name | usage]

Syntax Description	<table border="0"> <tr> <td><i>list-name</i></td><td>IP access list name. Maximum length is 64 characters.</td></tr> <tr> <td>usage</td><td>Access list usage.</td></tr> </table>	<i>list-name</i>	IP access list name. Maximum length is 64 characters.	usage	Access list usage.
<i>list-name</i>	IP access list name. Maximum length is 64 characters.				
usage	Access list usage.				

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show ip access-list usage** command.

```
switch# show ip access-list usage
Access List Name/Number      Filters IF    Status   Creation Time
-----
abc                         3       7     active   Tue Jun 24 17:51:40 2005
x1                          3       1     active   Tue Jun 24 18:32:25 2005
x3                          0       1     not-ready   Tue Jun 24 18:32:28 2005
```

The following is sample output from the **show ip access-list** command.

```
switch# show ip access-list abc
ip access-list abc permit tcp any any (0 matches)
ip access-list abc permit udp any any (0 matches)
ip access-list abc permit icmp any any (0 matches)
ip access-list abc permit ip 10.1.1.0 0.0.0.255 (2 matches)
ip access-list abc permit ip 10.3.70.0 0.0.0.255 (7 matches)
```

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show ip route

To display the IP routing information, use the **show ip route** command in EXEC mode.

show ip route

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show ip route** command.

```
switch# show ip route
Codes: C - connected, S - static

Default gateway is 10.20.83.1

C 10.20.83.0/24 is directly connected, mgmt0
```

■ show logging***Send documentation comments to mdsfeedback-doc@cisco.com.***

show logging

To display the current message logging configuration, use the **show logging** command in EXEC mode.

show logging [info | last *lines* | level | logfile | monitor | server]

Syntax Description	
info	Displays logging configuration.
last <i>lines</i>	Displays last few lines of logfile. The range is 1 to 9999.
level	Displays logging level configuration.
logfile	Displays contents of logfile.
monitor	Displays monitor logging configuration.
server	Displays server logging configuration.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

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Examples

The following is sample output from the **show logging** command.

```
switch# show logging
Logging monitor: disabled
Logging server: disabled
Logging logfile: enabled (Severity: critical)

Facility      Default Severity      Current Session Severity
-----        -----
fcns          6                  2
fcs           6                  2
zone          6                  2
auth           6                  2
ipconf         6                  2
module         6                  2
ntp            6                  2
sysmgr         6                  2
user           6                  2
port           6                  2
fcdomain       6                  2
fspf           6                  2

[1][Mon Apr 25 11:02:03.228 UTC 2005][I][8400.0022][Switch][Successful login user
(admin@OB-session1) with admin privi
lege]
[2][Mon Apr 25 11:02:03.337 UTC 2005][W][8A00.0000][CLI][Error while processing 'copy'
command: Source file does not exist]
[3][Mon Apr 25 11:02:03.358 UTC 2005][A][1005.0040][Port: if1/2][Unsupported SFP within
port.]
[4][Mon Apr 25 11:02:03.393 UTC 2005][A][1005.0040][Port: if1/9][Unsupported SFP within
port.]
[5][Mon Apr 25 11:02:03.431 UTC 2005][A][1005.0040][Port: if1/13][Unsupported SFP within
port.]
```

The following is sample output from the **show logging info** command.

```
switch# show logging info
Logging monitor: disabled
Logging server: disabled
Logging logfile: enabled (Severity: critical)

Facility      Default Severity      Current Session Severity
-----        -----
fcns          6                  2
fcs           6                  2
zone          6                  2
auth           6                  2
ipconf         6                  2
module         6                  2
ntp            6                  2
sysmgr         6                  2
user           6                  2
port           6                  2
fcdomain       6                  2
fspf           6                  2
```

The following is sample output from the **show logging last** command.

```
switch# show logging last 2

[7][Fri Jan 21 22:45:07.672 UTC 2005][I][8400.0023][Switch][Successful login user
(admin@OB-session3) with admin privilege from address 10.0.0.254]
[8][Fri Jan 21 22:49:06.768 UTC 2005][I][8400.0023][Switch][Successful login user
(maint@OB-session4) with admin privilege from address 10.0.0.254]
```

■ show logging

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The following is sample output from the **show logging monitor** command.

```
switch# show logging monitor
Logging monitor:           enabled
```

The following is sample output from the **show logging server** command.

```
switch# show logging server
Logging server:           disabled
```

Related Commands

Command	Description
logging level	Configures the message facility name and severity level.
logging monitor	Configures the message severity level.
logging server	Configures the IP address of the remote logging host running syslog.

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show module

To verify the status of a module, use the **show module** command in EXEC mode.

show module [uptime]

Syntax Description	uptime	Displays the length of time that the module has been functional in the switch.														
Defaults	No default behavior or values.															
Command Modes	EXEC															
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).															
Usage Guidelines	Use the uptime option to display the time that a module goes online after a disruptive upgrade or reset.															
Examples	<p>The following is sample output from the show module command.</p> <pre>switch# show module Mod Ports Module-Type Model Status --- --- ----- 1 20 1/2/4 Gbps FC/Supervisor DS-C9020-20K9 active *</pre> <table border="1"> <thead> <tr> <th>Mod</th> <th>Sw</th> <th>Hw</th> <th>World-Wide-Name (WWN)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.1(2)</td> <td>-----</td> <td>10:00:00:0d:ec:19:cb:01</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Mod</th> <th>MAC-Address</th> <th>Serial-Num</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>00-c0-dd-03-d4-e4</td> <td>0426a07855</td> </tr> </tbody> </table> <p>* this terminal session</p>		Mod	Sw	Hw	World-Wide-Name (WWN)	1	2.1(2)	-----	10:00:00:0d:ec:19:cb:01	Mod	MAC-Address	Serial-Num	1	00-c0-dd-03-d4-e4	0426a07855
Mod	Sw	Hw	World-Wide-Name (WWN)													
1	2.1(2)	-----	10:00:00:0d:ec:19:cb:01													
Mod	MAC-Address	Serial-Num														
1	00-c0-dd-03-d4-e4	0426a07855														

The following is sample output from the **show module uptime** command.

```
switch# show module uptime
----- Module 1 -----
Module Start Time: Mon Apr 25 11:01:12 2005
Up Time:          0 days, 9 hours, 7 minutes, 56 seconds
```

show processes

Send documentation comments to mdsfeedback-doc@cisco.com.

show processes

To display general information about all the processes, use the **show processes** command in EXEC mode.

show processes {log [details]}

Syntax Description	log Displays information about process logs or backtrace files. details Displays detailed process log information.
---------------------------	---

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show processes** command.

```
switch# show processes
      PID  PPID %CPU      TIME    ELAPSED COMMAND
    178   148  0.0 00:00:00  09:46:25 cns
    179   148  0.0 00:00:00  09:46:25 ens
    180   148  0.0 00:00:00  09:46:25 dlog
    181   148  0.0 00:00:05  09:46:24 ds
    182   148  0.0 00:00:02  09:46:24 mgmtApp
    183   148  0.0 00:00:00  09:46:24 sys2swlog
    236   148  0.0 00:00:00  09:45:38 fc2
    237   148  0.0 00:00:00  09:45:38 nserver
    238   148  0.0 00:00:00  09:45:38 mserver
    239   148  0.0 00:00:00  09:45:38 util
    240   148  0.0 00:00:01  09:45:37 snmpservicepath
    241   148  0.0 00:00:00  09:45:37 eport
    242   148  0.0 00:00:00  09:45:37 PortApp
    243   148  0.0 00:00:00  09:45:37 port_mon
    244   148  0.0 00:00:00  09:45:37 zoning
    245   148  0.0 00:00:00  09:45:37 diagApp
    265   148  0.0 00:00:00  09:45:31 snmpd
    266   148  0.0 00:00:00  09:45:31 snmpmain
    269   266  0.0 00:00:00  09:45:29 snmpmain
    270   269  0.0 00:00:00  09:45:29 snmpmain
```

The following is sample output from the **show processes log** command.

```
switch# show processes log
Process          Log-create-time
-----
backtrace-clishco  Tue Apr 26 18:45:39 2005
```

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show radius-server

To display all configured RADIUS server parameters, use the **show radius-server** command in EXEC mode.

show radius-server

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines Only administrators can view the RADIUS pre-shared key.

Examples The following is sample output from the **show radius-server** command.

```
switch# show radius-server
total number of servers:2
following RADIUS servers are configured:
  10.20.11.5:
    available for authentication on port:1812
    available for accounting on port:1813
    RADIUS shared secret:
      timeout:2
      retries:0
  10.20.11.7:
    available for authentication on port:1812
    available for accounting on port:1813
    RADIUS shared secret:
      timeout:2
      retries:0
```

■ **show running-config**

Send documentation comments to mdsfeedback-doc@cisco.com.

show running-config

To display the running configuration file, use the **show running-config** command in EXEC mode.

show running-config [diff]

Syntax Description	diff Displays the difference between the running and startup configurations.
Defaults	No default behavior or values.
Command Modes	EXEC
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	If the running configuration is different from the startup configuration, enter the show startup-config diff command to view the differences.
Examples	The following is sample output from the show running-config command. <pre>switch# show running-config ip default-gateway 10.20.83.1 logging level fcdomain 2 logging level fspf 2 logging level fcns 2 logging level fcs 2 logging level port 2 logging level zone 2 logging level auth 2 logging level ipconf 2 logging level module 2 logging level ntp 2 logging level sysmgr 2 interface mgmt0 ip address 10.20.83.122 255.255.255.0 interface fc1/1 interface fc1/2 interface fc1/3 interface fc1/4 interface fc1/5 interface fc1/6 interface fc1/7 interface fc1/8 interface fc1/9 interface fc1/10 interface fc1/11 interface fc1/12 interface fc1/13 interface fc1/14 interface fc1/15</pre>

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```
interface fc1/16
interface fc1/17
interface fc1/18
interface fc1/19
interface fc1/20
```

The following is sample output from the **show running-config diff** command.

```
switch# show running-config diff
switchname rtp-9020-top
    ip default-gateway 172.18.172.1
    ssh server enable
    logging level fcdomain 2
    logging level fspf 2
    logging level fcns 2
    logging level fcs 2
    logging level port 2
    logging level zone 2
    logging level auth 2
    logging level ipconf 2
    logging level module 2
    logging level ntp 2
    logging level sysmgr 2
    snmp-server community public ro
    snmp-server community private rw
    interface mgmt0
        ip address 172.18.172.160 255.255.255.0
        no shutdown
    interface fc1/1
+   no shutdown
    interface fc1/2
    interface fc1/3
    interface fc1/4
    interface fc1/5
    interface fc1/6
    interface fc1/7
    interface fc1/8
    interface fc1/9
    interface fc1/10
    interface fc1/11
    interface fc1/12
    interface fc1/13
    interface fc1/14
    interface fc1/15
    interface fc1/16
    interface fc1/17
    interface fc1/18
    interface fc1/19
    interface fc1/20
```

show snmp

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show snmp

To display SNMP status and setting information, use the **show snmp** command in EXEC mode.

show snmp [community | host | user]

Syntax Description	
community	Displays SNMP community strings.
host	Displays SNMP host information.
user	Displays SNMP users.

Defaults Displays the system contact, system location, and community information.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show snmp** command.

```
switch# show snmp

sys contact: <sysContact undefined>
sys location: <sysLocation undefined>

Community           Group/Access
-----
public             network-operator
```

The following is sample output from the **show snmp community** command.

```
switch# show snmp community

Community           Group/Access
-----
public             network-operator
```

The following is sample output from the **show snmp user** command.

```
switch# show snmp user
Host                  Port Version  Type    SecName
-----
10.0.0.254          162   2c       trap    public
```

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The following is sample output from the **show snmp host** command.

Host	Port	Version	Level	Type	SecName
172.16.126.34	2162	v2c	noauth	trap	public
172.16.75.106	2162	v2c	noauth	trap	public
172.31.124.81	2162	v2c	noauth	trap	public
172.31.157.193	2162	v2c	noauth	trap	public
172.31.157.98	2162	v2c	noauth	trap	public
172.31.49.25	2162	v2c	noauth	trap	public
172.31.49.32	2188	v2c	noauth	trap	public
172.31.49.49	2162	v2c	noauth	trap	public
172.31.49.49	3514	v2c	noauth	trap	public
172.31.49.54	2162	v2c	noauth	trap	public
172.31.58.54	2162	v2c	noauth	trap	public
172.31.58.81	2162	v2c	noauth	trap	public
172.31.58.97	1635	v2c	noauth	trap	public
172.31.58.97	2162	v2c	auth	trap	public
172.31.58.97	3545	v2c	auth	trap	public
172.22.00.43	2162	v2c	noauth	trap	public
172.22.00.65	2162	v2c	noauth	trap	public
172.22.05.234	2162	v2c	noauth	trap	public
172.22.05.98	1050	v2c	noauth	trap	public

The following is sample output from the **show snmp user** command.

User	Group	Auth	Priv
sadmin2	network-admin	md5	des
sadmin	network-admin	md5	des
soper	network-operator	md5	des

 show sprom mgmt-module

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show sprom mgmt-module

To display the switch SPROM contents, use the **show sprom mgmt-module** command in EXEC mode.

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show sprom mgmt-module** command.

```
switch# show sprom mgmt-module
DISPLAY SAM sprom contents:
Common block:
  OEM String      : Cisco Systems, Inc.
  Product Number  : DS-C9020-20K9
  Serial Number   : 0426a07855
  Part Number     : 74-3811-01
  Part Revision   : A0
  Mfg Deviation   : 0
  H/W Version     : -----
  snmpOID         : 1.3.6.1.4.1.1663.1.1.1.26
  CLEI Code       : COMMM0ARA
  VID             : V01
  MAC Address    : 00-c0-dd-03-d4-e4
  WWN             : 10:00:00:0d:ec:19:cb:0e
```

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show ssh server

To display the status of the Secure Shell information (SSH) server, use the **show ssh server** command in EXEC mode.

show ssh server

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show ssh server** command.

```
switch# show ssh server
ssh service is enabled
```

 show startup-config

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show startup-config

To display the startup configuration file, use the **show startup-config** command in EXEC mode.

show startup-config

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show startup-config** command.

```
switch# show startup-config
#
# Startup config
#
switchname DS-C9020-20K9

fcdomain domain 0 preferred

interface fc1/1
    no shutdown
    Auto

interface fc1/2
    no shutdown
    Auto

interface fc1/3
    no shutdown
    Fx

interface fc1/4
    no shutdown
    Auto

interface fc1/5
    no shutdown
    Auto

interface fc1/6
    no shutdown
    Auto

interface fc1/7
    no shutdown
    Auto
```

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```
interface fc1/8
    no shutdown
    Auto

interface fc1/9
    no shutdown
    Auto

interface fc1/10
    no shutdown
    Auto

interface fc1/11
    no shutdown
    Auto

interface fc1/12
    no shutdown
    Auto
```

■ show switchname

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show switchname

To display the switch network name, use the **show switchname** command in EXEC mode.

show switchname

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show switchname** command.

```
switch# show switchname
switch-123
```

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show system

To display the system information, use the **show system** command in EXEC mode.

show system [reset-reason | uptime]

Syntax Description	reset-reason Displays the last reset reason code. uptime Displays how long the system has been up and running.
---------------------------	---

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following is sample output from the show system reset-reason command.
-----------------	--

```
switch# show system reset-reason
----- reset reason for module 1 -----
1) At <USECS> usecs after Fri Jan 21 23:20:11 2005
    Reason: NormalReset
```

The following is sample output from the **show system uptime** command.

```
switch# show system uptime
System Start Time:           Mon Apr 25 11:01:12 2005
System Up Time:              0 days, 10 hours, 58 minutes, 38 seconds
Active Supervisor Up Time:   0 days, 10 hours, 58 minutes, 38 seconds
```

 show tech-support

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show tech-support

To display information useful to technical support when reporting a problem, use the **show tech-support** command in EXEC mode.

show tech-support [brief | create | details | interface | module 1]

Syntax Description	
brief	Provides a summary of the current running state of the switch.
create	Creates a technical support file (dump_support.tgz) and uses FTP to send the file to a remote host.
details	Provides detailed troubleshooting information.
interface	Displays interface status and configuration information.
module 1	Displays module1 status information.

Defaults Displays the equivalent of all the following **show** commands.

- **show version**
- **show environment**
- **show module**
- **show hardware**
- **show running-config**
- **show interface**
- **show accounting log**
- **show processes**

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines The **show tech-support** command is a compilation of several **show** commands and can be quite lengthy. For a sample display of the output of the **show tech-support** command, see the individual command explanations for the commands listed under Defaults.

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Examples

The following is sample output from the **show tech-support module** command.

```

switch# show tech-support module 1
  CMD: show module 1
  ---
  Mod  Ports  Module-Type          Model      Status
  ---  -----  -----  -----
  1    20     1/2/4 Gbps FC/Supervisor  DS-C9020-20K9  active

  Mod  Sw           Hw        World-Wide-Name (WWN)
  ---  ---  -----
  1    2.1(2)       -----  10:00:00:0d:ec:19:cb:0e

  Mod  MAC-Address          Serial-Num
  ---  -----  -----
  1    00-c0-dd-03-d4-e4    0426a07855

  CMD: show environment
  ---
  Fan:
  -----
  Fan          Status
  -----
  1            Good
  2            Good

  Temperature:
  -----
  Module  CurTemp   Status
  (Celsius)
  -----
  1        33        ok

  Power Supply:
  -----
  PS      Status
  -----
  1      ok
  2      ok

```

■ show tech-support

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The following is sample output from the **show tech-support brief** command.

```
switch# show tech-support brief
CMD: show fcs database
---

FCS Local Database
-----
Switch WWN      : 1000000dec19cb0e
Switch Domain Id : 105
Fabric-Name     :
Switch Logical-Name : switch
Switch Ports:
-----
Interface  fWWN          Type   Attached-pWWNs
-----
fc1/1       20:00:00:0d:ec:19:cb:0e Unknown  None
fc1/2       20:01:00:0d:ec:19:cb:0e Unknown  None
fc1/3       20:02:00:0d:ec:19:cb:0e Unknown  None
fc1/4       20:03:00:0d:ec:19:cb:0e Unknown  None
fc1/5       20:04:00:0d:ec:19:cb:0e Unknown  None
fc1/6       20:05:00:0d:ec:19:cb:0e Unknown  None
fc1/7       20:06:00:0d:ec:19:cb:0e Unknown  None
fc1/8       20:07:00:0d:ec:19:cb:0e Unknown  None
fc1/9       20:08:00:0d:ec:19:cb:0e Unknown  None
fc1/10      20:09:00:0d:ec:19:cb:0e Unknown  None
fc1/11      20:0a:00:0d:ec:19:cb:0e Unknown  None
fc1/12      20:0b:00:0d:ec:19:cb:0e Unknown  None
fc1/13      20:0c:00:0d:ec:19:cb:0e Unknown  None
fc1/14      20:0d:00:0d:ec:19:cb:0e Unknown  None
fc1/15      20:0e:00:0d:ec:19:cb:0e Unknown  None
fc1/16      20:0f:00:0d:ec:19:cb:0e Unknown  None
fc1/17      20:10:00:0d:ec:19:cb:0e Unknown  None
fc1/18      20:11:00:0d:ec:19:cb:0e Unknown  None
fc1/19      20:12:00:0d:ec:19:cb:0e Unknown  None
fc1/20      20:13:00:0d:ec:19:cb:0e Unknown  None

CMD: show version
---

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Software
system: 2.1(2)
system compile time: Thu Apr 21 12:48:49 2005

Hardware
switch uptime is 0 days 11 hours 14 minute(s) 0 second(s)

Last reset at 40440 usecs after Mon Apr 25 11:01:12 2005
Reason: PowerUp

CMD: show interface brief
---
```

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Interface	Admin Mode	Status	FCOT	Oper Mode	Oper Speed (Gbps)
fc1/1	auto	down	lwl	--	
fc1/2	auto	down	swl	--	
fc1/3	auto	down	--	--	
fc1/4	auto	down	--	--	
fc1/5	auto	down	--	--	
fc1/6	auto	down	--	--	
fc1/7	auto	down	--	--	
fc1/8	auto	down	--	--	
fc1/9	auto	down	swl	--	
fc1/10	auto	down	--	--	
fc1/11	auto	down	--	--	
fc1/12	auto	down	--	--	
fc1/13	auto	down	unk	--	
fc1/14	auto	down	--	--	
fc1/15	auto	down	--	--	
fc1/16	auto	down	swl	--	
fc1/17	auto	down	--	--	
fc1/18	auto	down	--	--	
fc1/19	auto	down	--	--	
fc1/20	auto	down	elec	--	

Interface	Status	IP Address
mgmt0	up	10.20.83.122

The following is sample output from the **show tech-support create** command.

```
switch # show tech-support create
This may take several seconds...
FTP the dump support file to another machine? (y/n) : y
Enter IP Address of remote computer: 10.20.33.130
Login name: soper1
Enter a valid remote directory path within the user's home directory.
Otherwise the file will be place in the user's home directory:
Would you like to continue downloading support file? (y/n) : y
Connected to 10.20.33.130 (10.20.33.130).
220 localhost.localdomain FTP server (Version wu-2.6.1-18) ready.
331 Password required for soper1.
Password:
230 User soper1 logged in.
cd /itasca/conf/images
Local directory now /itasca/conf/images
bin
200 Type set to I.
put dump_support.tgz
local: dump_support.tgz remote: dump_support.tgz
227 Entering Passive Mode (10,20,33,130,144,7)
150 Opening BINARY mode data connection for dump_support.tgz.
226 Transfer complete.
75614 bytes sent in 0.00731 secs (1e+04 Kbytes/sec)
Remote system type is UNIX.
Using binary mode to transfer files.
221-You have transferred 75614 bytes in 1 files.
221-Total traffic for this session was 76026 bytes in 1 transfers.
221 Thank you for using the FTP service on localhost.localdomain.
```

■ show telnet server

Send documentation comments to mdsfeedback-doc@cisco.com.

show telnet server

To display the state of the Telnet access configuration, use the **show telnet server** command in EXEC mode.

show telnet server

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show telnet server** command.

```
switch# show telnet server
telnet service is enabled
```

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show terminal

To display the terminal information, use the **show terminal** command

show terminal

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show terminal** command.

```
switch# show terminal  
Length: 10 lines  
Session Timeout: 0 minutes
```

show user-account

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show user-account

To display configured information about user accounts, use the **show user-account** command in EXEC mode.

show user-account

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show user-account** command.

```
switch# show user-account
show user-account
user:admin
    this user account has no expiry date
    roles:network-admin
```

Send documentation comments to mdsfeedback-doc@cisco.com.

show users

To display all users currently accessing the switch, use the **show users** command in EXEC mode.

show users

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show users** command.

```
switch# show users
    snmp@IB-session2      Mon Apr 25 11:02:07 2005 (Unknown)
    snmp@OB-session3      Mon Apr 25 11:02:07 2005 (Unknown)
    admin@OB-session11    Wed Apr 27 13:50:49 2005 (10.20.32.70)
```

show version

Send documentation comments to mdsfeedback-doc@cisco.com.

show version

To display the version of system software that is currently running on the switch, use the **show version** command in EXEC mode.

show version

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show version** command.

```
switch# show version
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Software
  system: 2.1(2)
  system compile time: Thu Apr 21 12:48:49 2005

Hardware
  switch uptime is 0 days 11 hours 34 minute(s) 3 second(s)

  Last reset at 41643 usecs after Mon Apr 25 11:01:12 2005
  Reason: PowerUp
```

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show zone

To display zone information, use the **show zone** command in EXEC mode.

```
show zone [active | member {fcalias alias-name | pwwn wwn} | name string | status]
```

Syntax Description	
active	Displays zones which are part of active zone set.
member	Displays all zones to which the given member belongs.
fcalias	Displays zone members according to Fibre Channel alias.
pwwn	Displays zone members according to port worldwide name.
name	Displays members of a specified zone.
status	Displays zone server current status.
<i>alias-name</i>	Member alias name. Maximum length is 64 characters.
<i>wwn</i>	Member port worldwide name. Maximum length is 64 characters.
<i>string</i>	Zone name of up to 64 alphanumeric characters.

Defaults No default behavior or values.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following is sample output from the **show zone** command.

```
switch# show zone
zone name Z1
    pwwn 10:00:00:c0:dd:07:00:f8
    fcalias name A1
        pwwn 10:00:00:c0:dd:07:00:f9
```

The following is sample output from the **show zone name** command.

```
switch# show zone name Zone1
zone name Z1
    pwwn 10:00:00:c0:dd:07:00:f8
    fcalias name A1
        pwwn 10:00:00:c0:dd:07:00:f9
    fcid 0x610005
```

The following is sample output from the **show zone member pwwn** command.

```
switch# show zone member pwwn 10:00:00:c0:dd:07:00:f9
fcalias name A1
    pwwn 10:00:00:c0:dd:07:00:f9
```

■ show zone

Send documentation comments to mdsfeedback-doc@cisco.com.

The following is sample output from the **show zone status** command.

```
switch# show zone status
Full Zoning Database :
    Zonesets: 1 Zones: 1 Aliases: 1
    Active Zoning Database:
        Name: ZS1 Zonesets: 1 Zones: 1
        Status:
```

Send documentation comments to mdsfeedback-doc@cisco.com.

show zoneset

To display the configured zone sets, use the **show zoneset** command in EXEC mode.

show zoneset [active | name *zoneset-name*]

Syntax Description	active Displays only active zone sets. name <i>zoneset-name</i> Displays members of a specified zone set. Maximum length is 64 characters.
---------------------------	---

Defaults	Displays active zone set information.
-----------------	---------------------------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following is sample output from the show zoneset command.
-----------------	--

```
switch# show zoneset

zoneset name ZS1
  zone name Z1
    pwwn 10:00:00:c0:dd:07:00:f8
    fcalias name A1
      pwwn 10:00:00:c0:dd:07:00:f9
```

The following is sample output from the **show zoneset active** command.

```
switch# show zoneset active
zoneset name ZS1
  zone name Z1
    pwwn 10:00:00:c0:dd:07:00:f8
    pwwn 10:00:00:c0:dd:07:00:f9
```

shutdown

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shutdown

To disable an interface, use the **shutdown** command in interface configuration submode.

shutdown [force]

To enable an interface, use the **no** form of this command.

no shutdown [force]

Syntax Description	force Forces the shut down of the mgmt0 interface to avoid the confirmation.						
Defaults	No default behavior or values.						
Command Modes	Interface configuration						
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).						
Usage Guidelines	<p>The default state for interfaces is shutdown. Use the no shutdown command to enable an interface to carry traffic.</p> <p>When you try to shut down a management interface (mgmt0), a follow-up message confirms your action before performing the operation. Use the force option to bypass this confirmation, if required.</p>						
Examples	<p>The following example shows how to enable an interface.</p> <pre>switch# config switch(config)# interface fc 1/2 switch(config-if)# no shutdown</pre> <p>The following example shows how to disable an interface.</p> <pre>switch# config switch(config)# interface mgmt 0 switch(config-if)# shutdown</pre> <p>The following example shows how to forcefully disable the mgmt0 interface.</p> <pre>switch# config switch(config)# interface mgmt 0 switch(config-if)# shutdown force</pre>						
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>interface</td><td>Specifies an interface and enters interface configuration submode.</td></tr> <tr> <td>show interface</td><td>Displays interface information.</td></tr> </tbody> </table>	Command	Description	interface	Specifies an interface and enters interface configuration submode.	show interface	Displays interface information.
Command	Description						
interface	Specifies an interface and enters interface configuration submode.						
show interface	Displays interface information.						

Send documentation comments to mdsfeedback-doc@cisco.com.

sleep

To delay an action by a specified number of seconds, use the **sleep** command in EXEC mode.

sleep *seconds*

Syntax Description	<i>seconds</i> The number of seconds to delay an action.
Defaults	No default behavior or values.
Command Modes	EXEC
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines	This command is useful within scripts.
Examples	The following example shows how to delay the switch prompt return. switch# sleep 30 You will see the switch prompt return after 30 seconds.

■ snmp-server

Send documentation comments to mdsfeedback-doc@cisco.com.

snmp-server

To configure the SNMP server information, switch location, and switch name, use the **snmp-server** command in configuration mode.

snmp-server {community string [ro | rw] | contact [name] | enable traps | location [location]}

To remove the SNMP server information, use the **no** form of this command.

no snmp-server {community string [ro | rw] | contact [name] | enable traps | location [location]}

Syntax Description	community string Specifies SNMP community string. Maximum length is 32 characters. ro Sets read-only access with this community string. rw Sets read-write access with this community string. contact Configures system contact. name Specifies the name of the contact. Maximum length is 80 characters. enable traps Enables SNMP traps. location Configures system location. location Specifies system location. Maximum length is 80 characters.
---------------------------	---

Defaults The default community access is read-only (**ro**).

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example sets the contact information, switch location, and switch name.

```
switch# config
switch(config)# snmp-server contact NewUser
switch(config)# no snmp-server contact NewUser
switch(config)# snmp-server location SanJose
switch(config)# no snmp-server location SanJose
switch(config)# snmp-server name NewName
switch(config)# no snmp-server name NewName
switch(config)# no snmp-server user usernameA
```

Related Commands	Command	Description
	show snmp	Displays SNMP information.

Send documentation comments to mdsfeedback-doc@cisco.com.

snmp-server host

To specify the recipient of an Simple Network Management Protocol notification operation, use the **snmp-server host** command in configuration mode.

snmp-server host *host-address* traps version [1 | 2c] *community-string* [udp-port *port*]

To remove the specified host, use the **no** form of this command.

no snmp-server host *host-address* traps version [1 | 2c] *community-string* [udp-port *port*]

Syntax Description	<i>host-address</i> Specifies the name or IP address of the host (the targeted recipient).
traps	Sends SNMP traps to this host.
version	Specifies the version of the Simple Network Management Protocol (SNMP) used to send the traps.
1	SNMPv1 (default).
2c	SNMPv2C.
<i>community-string</i>	Sends a password-like community string with the notification operation. Maximum length is 32 characters.
udp-port	Specifies the port UDP port of the host to use. The default is 162.
<i>port</i>	UDP port number. The range is 0 to 65,535.

Defaults Sends SNMP traps.

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines If you use the **version** keyword, one of the following must be specified: **1** or **2c**.

Examples The following example specify the recipient of an SNMP notification.

```
switch# config
switch(config)# snmp-server host 10.1.1.1 traps version 2c abcdssfsf udp-port 500
```

ssh key

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ssh key

To generate an SSH key, use the **ssh key** command in configuration mode.

ssh key rsa [bits]

To delete the SSH keys, use the **no** form of this command.

no ssh key

Syntax Description	rsa [bits] Generates an RSA key. The range for the number of bits is 768 to 2048.						
Defaults	No default behavior or values.						
Command Modes	Configuration						
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).						
Examples	The following example shows how to generate an SSH key. <pre>switch# config switch(config)# ssh key rsa 1024 generating rsa key..... generated rsa key switch(config)# switch(config)# no ssh key cleared RSA keys switch(config)# </pre>						
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show ssh key</td><td>Displays SSH key information.</td></tr> <tr> <td>ssh server enable</td><td>Enables SSH server.</td></tr> </tbody> </table>	Command	Description	show ssh key	Displays SSH key information.	ssh server enable	Enables SSH server.
Command	Description						
show ssh key	Displays SSH key information.						
ssh server enable	Enables SSH server.						

Send documentation comments to mdsfeedback-doc@cisco.com.

ssh server enable

To enable the SSH server, use the **ssh server enable** command in configuration mode.

ssh server enable

To disable the SSH service, use the **no** form of this command.

no ssh server enable

Syntax Description This command had no arguments or keywords.

Defaults Disabled

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example enables the SSH server.

```
switch# config
switch(config)# ssh server enable
updated
switch(config)# no ssh server enable
updated
```

Related Commands

Command	Description
show ssh server	Displays SSH server information.
ssh key	Generates an SSH key.

switchname

Send documentation comments to mdsfeedback-doc@cisco.com.

switchname

To change the name of the switch, use the **switchname** command in configuration mode.

switchname *name*

To revert the switch name to the default name, use the **no** form of this command.

no switchname

Syntax Description	<i>name</i>	Specifies a switch name. Maximum length is 32 characters.
Defaults	switch.	
Command Modes	Configuration	
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).	
Examples	The following example changes the name of the switch to myswitch1.	
	<pre>switch# config switch(config)# switchname myswitch1 myswitch1(config)# myswitch1(config)# no switchname switch(config)# </pre>	
Related Commands	Command	Description
	snmp-server	Sets the contact information, switch location, and switch name within the limit of 32 characters (without spaces).

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switchport

To configure switchport parameter on a Fibre Channel interface, use the **switchport** command in interface configuration submode.

```
switchport {beacon |
            description text |
            mode [auto | E | F | FL | Fx] |
            speed [1000 | 2000 | 4000 | auto]}
```

To negate this command or revert to the factory defaults, user the **no** form of this command.

```
no switchport [beacon | description | mode | speed ]
```

Syntax Description	
beacon	Enables the beacon for the interface.
description <i>text</i>	Specifies the interface description. Maximum length is 32 characters with no embedded spaces.
mode	Configures the port mode.
auto	Specifies autosense mode.
E	Specifies E port mode.
F	Specifies F port mode.
FL	Specifies FL port mode.
Fx	Specifies Fx port mode.
speed	Configures the port speed.
1000	Specifies 1000 Mbps speed.
2000	Specifies 2000 Mbps speed.
4000	Specifies 4000 Mbps speed.
auto	Specifies autosense speed.

Defaults	The beacon is disabled. The mode is auto . The speed is auto .
-----------------	--

Command Modes	Interface configuration
----------------------	-------------------------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Usage Guidelines	You can specify a range of interfaces by entering a command with the following example format: interface fc1/1-5
-------------------------	--

switchport

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Examples

The following example configures switchport features for a Fibre Channel interface.

```
switch# config
switch(config)# interface fc1/1-4
switch(config-if)# switchport description ISLs
switch(config-if)# switchport mode E
switch(config-if)# switchport speed 4000
```

Related Commands

Command	Description
show interface	Displays an interface configuration for a specified interface.

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telnet server enable

To enable the Telnet server, use the **telnet server enable** command in configuration mode.

telnet server enable

To disable this Telnet server, use the **no telnet server** command.

no telnet server enable

Syntax Description This command had no arguments or keywords.

Defaults No default behavior or values.

Command Modes Configuration

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Examples The following example enables the Telnet server.

```
switch(config)# telnet server enable
```

terminal

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terminal

To configure terminal attributes, use the **terminal** command in EXEC mode.

terminal [length *lines* | session-timeout *minutes*]

To revert to the defaults, use the **no** form of this command.

no terminal [length | session-timeout]

Syntax Description	length <i>lines</i> Specifies the number of lines on the screen. The range is 0 to 511. Enter 0 to scroll continuously. session-timeout Specifies the session timeout value in minutes. The range is 0 to 525600. Enter 0 to disable.
---------------------------	--

Defaults The default number of lines for the length is 20. The default width is 80 lines.

Command Modes EXEC

Command History This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines Remember that all terminal parameter-setting commands are set locally and do not remain in effect after a session is ended. You must perform this task at the EXEC prompt at each session to see the debugging messages.

If the length is not 20 and the width is not 80, then you need to set a length and width.

Examples The following example sets the terminal length to 30.

```
switch# terminal length 30
```

Related Commands	Command	Description
	show terminal	Displays terminal configuration information.

Send documentation comments to mdsfeedback-doc@cisco.com.

username

To define a user, use the **username** command in configuration mode.

```
username name {password user-password | [expire days] | role rolename}
```

To undo the configuration or revert to factory defaults, use the **no** form of this command.

```
no username name {expire days | password user-password [expire date] | role rolename}
```

Syntax Description

name	Specifies the name of the user. Maximum length is 16 characters.
password	Configures a password for the user.
<i>user-password</i>	Enters the password. The minimum password length is 8 characters and the maximum is 20.
expire days	Specifies the date when this user account expires (in YYYY-MM-DD format). The date can be no more than 2000 days into the future.
role	Specifies the role name of the user.
<i>rolename</i>	Role name. Only two role names are supported: network-operator and network-administrator. Maximum length is 32 characters.

Defaults

No default behavior or values.

Command Modes

Configuration

Command History

This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).

Usage Guidelines

Deleting a user using either command results in the user being deleted for both SNMP and CLI. User-role mapping changes are synchronized in SNMP and CLI.

username

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Examples

The following example shows how to define a user.

```
switch(config)# username knuckles password testpw role network-operator
switch(config)# do show user-account
user:admin
    this user account has no expiry date
    roles:network-admin
user:knuckles
    this user account has no expiry date
    roles:network-operator
```

The following example creates or updates the user account (usam) along with a password (abcd) that is set to expire on 2003-05-31.

```
switch(config)# username usam password abcd expire 2003-05-31
```

The following example adds the specified user (usam) to the network-admin role.

```
switch(config)# username usam role network-admin
```

Related Commands

	Command	Description
	show username	Displays user name information.

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write erase

To clear a startup configuration, enter the **write erase** command in EXEC mode.

write erase [boot]

Syntax Description	boot	Destroys the startup file and mgmt0 IP configuration.
Defaults		No default behavior or values.
Command Modes		EXEC
Command History		This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
Usage Guidelines		Once this command is entered, the switch's startup configuration reverts to factory defaults. The running configuration is not affected. The write erase command erases the entire startup configuration with the exception of the IP configuration of the mgmt0 IP configuration (IP address, netmask, and default gateway). The write erase boot command erases the mgmt0 IP configuration information (IP address, netmask, and default gateway) and the startup configuration.
Examples		The following example clears only the startup configuration. switch# write erase The following example clears the startup configuration and the mgmt0 IP configuration. switch# write erase boot This command will erase the boot variables and the ip configuration of interface mgmt 0

zone default-zone

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zone default-zone

To define whether a default zone (nodes not assigned a created zone) permits or denies access to all in the default zone, use the **zone default-zone** command in configuration mode.

zone default-zone [permit]

To negate the command or revert to the factory defaults, use the **no** form of this command.

no zone default-zone [permit]

Syntax Description	permit	Permits access to all in the default zone.				
Defaults	All default zones are permitted access.					
Command Modes	Configuration					
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).					
Examples	The following example permits default zoning.					
	<pre>switch# config switch(config)# zone default-zone permit</pre>					
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show zone</td> <td>Displays zone information.</td> </tr> </tbody> </table>		Command	Description	show zone	Displays zone information.
Command	Description					
show zone	Displays zone information.					

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zone name

To create a zone, use the **zone name** command in configuration mode.

zone name *zone-name*

To negate the command or revert to the factory defaults, use the **no** form of this command.

no zone name *zone-name*

Entering the **zone name** command opens the config-zone submode which provides access to the following subcommand:

member [fcalias *alias-name* | pwwn *pwwn-id*]

Syntax Description	<p>zone-name Specifies the name of the zone and opens the config-zonet submode. Maximum length is 64 characters.</p> <p>member Adds a member to a zone. This command is available only in the config-zone submode.</p> <p>fcalias <i>alias-name</i> Adds a member using the device alias name.</p> <p>pwwn <i>pwwn-id</i> Adds a member using the port WWN in the format <i>hh:hh:hh:hh:hh:hh:hh:hh</i>.</p>
---------------------------	--

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	Configuration
----------------------	---------------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Usage Guidelines	Zones are assigned to zone sets, zone sets are then activated from one switch and propagate across the fabric to all switches. Zones allow security by permitting and denying access between nodes (hosts and storage). zone name commands are entered from the configuration mode.
-------------------------	--

Broadcast frames are sent to all Nx ports.

If any NL port attached to an FL port shares a broadcast zone with the source of the broadcast frame, then the frames are broadcast to all devices in the loop.

zone name

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Examples

The following example configures members for the specified zone (Zone2) based on the member type (pWWN or FC alias) and value specified.

```
switch# config
switch(config)# zone name Zone2
switch(config-zone)# member pwwn 10:00:00:23:45:67:89:ab
switch(config-zone)# member fcalias Payroll
```

Related Commands

Command	Description
show zone	Displays zone information.
zone rename	Renames zones.

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zone rename

To rename a zone, use the **zone rename** command in EXEC mode.

zone rename *current-name new-name*

Syntax Description	<table border="0"> <tr> <td><i>current-name</i></td><td>Specifies the current fcalias name. Maximum length is 64 characters.</td></tr> <tr> <td><i>new-name</i></td><td>Specifies the new fcalias name. Maximum length is 64 characters.</td></tr> </table>	<i>current-name</i>	Specifies the current fcalias name. Maximum length is 64 characters.	<i>new-name</i>	Specifies the new fcalias name. Maximum length is 64 characters.
<i>current-name</i>	Specifies the current fcalias name. Maximum length is 64 characters.				
<i>new-name</i>	Specifies the new fcalias name. Maximum length is 64 characters.				

Defaults	No default behavior or values.
-----------------	--------------------------------

Command Modes	EXEC
----------------------	------

Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).
------------------------	--

Examples	The following example shows how to rename a zone.
-----------------	---

```
switch# zone rename ZoneA ZoneB
```

Related Commands	Command	Description
	show zone	Displays zone information.
	zone name	Creates and configures zones.

zoneset

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zoneset

To group zones under one zone set, use the **zoneset** command in configuration mode.

```
zoneset [name zoneset-name |
activate name zoneset-name |
distribute full |
rename current-name new-name]
```

To negate the command or revert to the factory defaults, use the **no** form of this command.

```
no zoneset [name zoneset-name |
activate name zoneset-name |
distribute full |
rename current-name new-name]
```

Entering the **zoneset name zoneset-name** command opens the config-zoneset submode which provides access to the member subcommand:

```
member [fcalias alias-name | pwwn pwvn-id]
```

Syntax Description	<table border="0"> <tr> <td>name zoneset-name</td><td>Creates the zone set and opens the config-zoneset submode. Maximum length is 64 characters.</td></tr> <tr> <td>activate zoneset-name</td><td>Activates a zone set.</td></tr> <tr> <td>distribute full</td><td>Enables full zone set propagation. Zone set propagation occurs when a zone set is activated.</td></tr> <tr> <td>member zone-name</td><td>Specifies an existing zone as a zone set member. This command is available only in the config-zoneset submode.</td></tr> <tr> <td>rename</td><td>Renames a zone set.</td></tr> <tr> <td><i>current-name</i></td><td>Specifies the current zone set name.</td></tr> <tr> <td><i>new-name</i></td><td>Specifies the new zone set name.</td></tr> </table>	name zoneset-name	Creates the zone set and opens the config-zoneset submode. Maximum length is 64 characters.	activate zoneset-name	Activates a zone set.	distribute full	Enables full zone set propagation. Zone set propagation occurs when a zone set is activated.	member zone-name	Specifies an existing zone as a zone set member. This command is available only in the config-zoneset submode.	rename	Renames a zone set.	<i>current-name</i>	Specifies the current zone set name.	<i>new-name</i>	Specifies the new zone set name.
name zoneset-name	Creates the zone set and opens the config-zoneset submode. Maximum length is 64 characters.														
activate zoneset-name	Activates a zone set.														
distribute full	Enables full zone set propagation. Zone set propagation occurs when a zone set is activated.														
member zone-name	Specifies an existing zone as a zone set member. This command is available only in the config-zoneset submode.														
rename	Renames a zone set.														
<i>current-name</i>	Specifies the current zone set name.														
<i>new-name</i>	Specifies the new zone set name.														
Defaults	No default behavior or values.														
Command Modes	Configuration														
Command History	This command was introduced in Cisco MDS 9000 FabricWare Release 2.1(2).														
Usage Guidelines	Zones are activated by activating the parent zone set.														

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Examples

The following example creates a zone set named gottons, adds a zone, and activates the zone set.

```
switch# config
switch(config)# zoneset name gottons
switch(config-zone)# member zone1
switch(config-zone)# exit
switch(config)# zoneset activate name gottons
Zoneset Activation initiated. check zone status
```

Related Commands

Command	Description
show zoneset	Displays zone set information.

■ zoneset

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