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CHAPTER 19

R Commands

The commands in this chapter apply to the Cisco MDS 9000 Family of multilayer directors and fabric switches. 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. For more information, refer to the *Cisco MDS 9000 Family Configuration Guide*.

radius abort

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radius abort

To discard a RADIUS Cisco Fabric Services (CFS) distribution session in progress, use the **radius abort** command in configuration mode.

radius abort

Syntax Description This command has no other arguments or keywords.

Defaults None.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to discard a RADIUS CFS distribution session in progress.

```
switch# config terminal
switch(config)# radius abort
```

Related Commands	Command	Description
	radius distribute	Enables CFS distribution for RADIUS.
	show radius	Displays RADIUS CFS distribution status and other details.

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radius commit

To apply the pending configuration pertaining to the RADIUS Cisco Fabric Services (CFS) distribution session in progress in the fabric, use the **radius commit** command in configuration mode.

radius commit

Syntax Description This command has no other arguments or keywords.

Defaults None.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to apply a RADIUS configuration to the switches in the fabric.

```
switch# config terminal
switch(config)# radius commit
```

Related Commands	Command	Description
	radius distribute	Enables CFS distribution for RADIUS.
	show radius	Displays RADIUS CFS distribution status and other details.

radius distribute

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radius distribute

To enable Cisco Fabric Services (CFS) distribution for RADIUS, use the **radius distribute** command. To disable this feature, use the **no** form of the command.

radius distribute

no radius distribute

Syntax Description This command has no other arguments or keywords.

Defaults Disabled.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to enable RADIUS fabric distribution.

```
switch# config terminal
switch(config)# radius distribute
```

Related Commands

Command	Description
radius commit	Commits temporary RADIUS configuration changes to the active configuration.
show radius	Displays RADIUS CFS distribution status and other details.

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radius-server host

To configure RADIUS server parameters, use the **radius** command. Use the **no** form of this command to revert to the factory defaults.

```
radius-server host {server-name | ip-address}
    [key [0 | 7] shared-secret] [accounting]
    [acct-port port-number] [auth-port port-number] [authentication] [retransmit count]
    [timeout seconds [retransmit count]]

no radius-server host {server-name | ip-address}
    [key [0 | 7] shared-secret] [accounting]
    [acct-port port-number] [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
acct-port <i>port-number</i>	Configures the RADIUS server port for accounting.
authentication	Use for authentication.
accounting	Use for accounting.
key	RADIUS server shared key.
0	Configures a preshared key specified in clear text (indicated by 0) to authenticate communication between the RADIUS client and server. This is the default.
7	Configures a preshared key specified in encrypted text (indicated by 7) to authenticate communication between the RADIUS client and server.
<i>shared-secret</i>	Configures a preshared key to authenticate communication between the RADIUS client and server.
retransmit count	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 seconds	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	None.
Command Modes	Configuration mode.
Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

radius-server host

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Usage Guidelines None.

Examples The following example configures RADIUS server authentication parameters.

```
switch# config terminal
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 acct-port 2004
switch(config)# radius-server host 10.10.2.3 accounting
switch(config)# radius-server host radius2 key 0 abcd
switch(config)# radius-server host radius3 key 7 1234
```

Related Commands	Command	Description
	show radius-server	Displays RADIUS server information.

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radius-server key

To configure a global RADIUS shared secret, use the **radius-server key** command. Use the **no** form of this command to removed a configured shared secret.

radius-server key [0 | 7] *shared-secret*

no radius-server key [0 | 7] *shared-secret*

Syntax Description	<table border="0"> <tr> <td>0</td><td>Configures a preshared key specified in clear text (indicated by 0) to authenticate communication between the RADIUS client and server. This is the default.</td></tr> <tr> <td>7</td><td>Configures a preshared key specified in encrypted text (indicated by 7) to authenticate communication between the RADIUS client and server.</td></tr> <tr> <td><i>shared-secret</i></td><td>Configures a preshared key to authenticate communication between the RADIUS client and server.</td></tr> </table>	0	Configures a preshared key specified in clear text (indicated by 0) to authenticate communication between the RADIUS client and server. This is the default.	7	Configures a preshared key specified in encrypted text (indicated by 7) to authenticate communication between the RADIUS client and server.	<i>shared-secret</i>	Configures a preshared key to authenticate communication between the RADIUS client and server.
0	Configures a preshared key specified in clear text (indicated by 0) to authenticate communication between the RADIUS client and server. This is the default.						
7	Configures a preshared key specified in encrypted text (indicated by 7) to authenticate communication between the RADIUS client and server.						
<i>shared-secret</i>	Configures a preshared key to authenticate communication between the RADIUS client and server.						

Defaults	None.
Command Modes	Configuration mode.
Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

Usage Guidelines	You need to configure the RADIUS preshared key to authenticate the switch to the RADIUS server. The length of the key is restricted to 65 characters and can include any printable ASCII characters (white spaces are not allowed). You can configure a global key to be used for all RADIUS server configurations on the switch. You can override this global key assignment by explicitly using the key option in the radius-server host command.
-------------------------	---

Examples	The following examples provide various scenarios to configure RADIUS authentication.
<pre>switch# config terminal switch(config)# radius-server key AnyWord switch(config)# radius-server key 0 AnyWord switch(config)# radius-server key 7 public</pre>	

Related Commands	Command	Description
	show radius-server	Displays RADIUS server information.

radius-server retransmit

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radius-server retransmit

To globally specify the number of times the switch should try a request with a RADIUS server, use the **radius-server retransmit** command. To revert to default value, use the **no** form of the command.

radius-server retransmit *count*

no radius-server retransmit *count*

Syntax Description	count 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 5 times.				
Defaults	1 retransmission				
Command Modes	Configuration mode.				
Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).				
Usage Guidelines	None.				
Examples	The following example configures the number of retransmissions to 3. switch# config terminal switch(config)# radius-server retransmit 3				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th><th>Description</th></tr> </thead> <tbody> <tr> <td>show radius-server</td><td>Displays RADIUS server information.</td></tr> </tbody> </table>	Command	Description	show radius-server	Displays RADIUS server information.
Command	Description				
show radius-server	Displays RADIUS server information.				

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radius-server timeout

To specify the time between retransmissions to the RADIUS servers, use the **radius-server timeout** command. You can revert the retransmission time to its default by issuing the **no** form of the command.

radius-server timeout *seconds*

no radius-server timeout *seconds*

Syntax Description	<i>seconds</i> Specifies the time (in seconds) between retransmissions to the RADIUS server. The range is 1 to 60 seconds.				
Defaults	1 second				
Command Modes	Configuration mode.				
Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).				
Usage Guidelines	None.				
Examples	The following example configures the timeout value to 30 seconds. switch# config terminal switch(config)# radius-server timeout 30				
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show radius-server</td> <td>Displays RADIUS server information.</td> </tr> </tbody> </table>	Command	Description	show radius-server	Displays RADIUS server information.
Command	Description				
show radius-server	Displays RADIUS server information.				

■ **reload**

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reload

To reload the entire switch, an active supervisor module, a standby supervisor module, or a specific module, or to force a netboot on a given module, use the **reload** command in EXEC mode.

reload [module module-number force-dnld]

Syntax Description	module module-number Reloads a specific module or active/standby supervisor module. force-dnld Reloads, initiates netboot, and forces the download of the latest module firmware version to a specific module.
---------------------------	---

Defaults	Reboots the entire switch.
-----------------	----------------------------

Command Modes	EXEC mode.
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Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).
------------------------	---

Usage Guidelines	Use the reload command to reboot the system, or to reboot a specific module, or to force a netboot on a specific module. The reload command used by itself, powers down all the modules and reboots the supervisor modules.
-------------------------	---

The **reload module module-number** command is used if the given slot has a module or standby supervisor module. It then power-cycles that module. If the given slot has an active supervisor module, then it causes the currently active supervisor module to reboot and the standby supervisor module becomes active.

The **reload module module-number force-dnld** command is similar to the previous command. This command forces netboot to be performed. If the slot contains a module, then the module netbooks with the latest firmware and updates its corresponding flash with this image.

Examples	The following example uses reload to reboot the system.
-----------------	--

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

The following example uses **reload** to initiate netboot on a specific module.

```
switch# reload module 8 force-dnld
```

The following example uses **reload** to reboot a specific module.

```
switch# reload module 8
reloading module 8 ...
```

The following example uses **reload** to reboot an active supervisor module.

```
switch# reload module 5
This command will cause supervisor switchover. (y/n)? y
```

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Related Commands	Command	Description
	install	Installs a new software image.
	copy system:running-config nvram:startup-config	Copies any file from a source to a destination.

■ **read command-id*****Send documentation comments to mdsfeedback-doc@cisco.com.***

read command-id

To configure a SCSI read command for a SAN tuner extension N port, use the **read command-id** command.

```
read command-id cmd-id target pwwn transfer-size bytes [outstanding-ios value [continuous | num-transactions number]]
```

Syntax Description	cmd-id	Specifies the command identifier. The range is 0 to 2147483647.
target pwwn		Specifies the target port WWN. The format is <i>hh:hh:hh:hh:hh:hh:hh:hh</i> .
transfer-size bytes		Specifies the transfer size in multiples of 512 bytes. The range is 512 to 8388608.
outstanding-ios value		Specifies the number of outstanding I/Os. The range is 1 to 1024.
continuous		Specifies that the command is performed continuously.
num-transactions number		Specifies a number of transactions. The range is 1 to 2147483647.

Defaults	None.
-----------------	-------

Command Modes	SAN extension N port configuration submode.
----------------------	---

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines	To stop a SCSI read command in progress, use the stop command.
-------------------------	---

Examples	The following example configures a continuous SCSI read command.
<pre>switch# san-ext-tuner switch(san-ext)# nWWN 10:00:00:00:00:00:00:00 switch(san-ext)# nport pwwn 12:00:00:00:00:00:56 vsan 13 interface gigabitethernet 1/2 switch(san-ext-nport)# read command-id 100 target 22:22:22:22:22:22 transfer-size 512000 outstanding-ios 2 continuous</pre>	

Related Commands	Command	Description
	nport pwwn	Configures a SAN extension tuner N port.
	san-ext-tuner	Enables the SAN extension tuner feature.
	show san-ext-tuner	Displays SAN extension tuner information.
	stop	Cancels a SCSI command in progress on a SAN extension tuner N port.

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read-only

To configure the read-only attribute in a zone attribute group, use the **read-only** command in zone attribute configuration submode. To revert to the default, use the **no** form of the command.

read-only

no read-only

Syntax Description This command has no other arguments or keywords.

Defaults Read-write.

Command Modes Zone attribute configuration submode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines This command only configures the read-only attribute for enhanced zoning. To enable broadcast zoning for basic mode, use the **attribute read-only** subcommand after entering zone configuration mode using the **zone name** command.

Examples The following example shows how to set the read-only attribute for a zone attribute group.

```
switch# config terminal
switch(config)# zone-attribute-group name admin-attributes vsan 10
switch(config-attribute-group)# read-only
```

Related Commands

Command	Description
show zone-attribute-group	Displays zone attribute group information.
zone mode enhanced vsan	Enables enhanced zoning for a VSAN.
zone name	Configures zone attributes.
zone-attribute-group name	Configures zone attribute groups.

rmdir

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rmdir

To delete an existing directory from the Flash file system, use the **rmdir** command in EXEC mode.

```
rmdir [bootflash: | slot0: | volatile:]directory
```

Syntax Description	
bootflash:	Source or destination location for internal bootflash memory.
slot0:	Source or destination location for the CompactFlash memory or PCMCIA card.
volatile:	Source or destination location for volatile file system.
directory	Name of the directory to remove.

Defaults Uses the current default directory.

Command Modes EXEC

Command History This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

Usage Guidelines This command is only valid on Flash file systems.

The **rmdir** command deletes an existing directory at the current directory level or at a specified directory level. The directory must be empty to be deleted.

Examples The following example deletes the directory called test in the slot0 directory.

```
switch# rmdir slot0:test
```

The following example deletes the directory called test at the current directory level. If the current directory is slot0:mydir, this command deletes the slot0:mydir/test directory.

```
switch# rmdir test
```

Related Commands	Command	Description
	dir	Displays a list of files on a file system.
	mkir	Creates a new directory in the Flash file system.

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rmon alarm

To configure a remote monitoring (RMON) alarm, use the **rmon alarm** command in configuration mode. To delete an RMON alarm, use the **no** form of the command.

```
rmon alarm alarm-number mib-object sample-interval {absolute | delta} rising-threshold value
           [rising-event] falling-threshold value [falling-event] [owner alarm-owner]
```

```
no rmon alarm alarm-number
```

Syntax Description	
<i>alarm-number</i>	Specifies the RMON alarm number. The range is 1 to 65535.
<i>mib-object</i>	Specifies the MIB object to monitor. Maximum length is 80 characters. Note The MIB object identifier must be fully numbered, dotted-decimal notation, not the text string description.
<i>sample-interval</i>	Specifies the sample interval in seconds. The range is 1 to 2147483647.
absolute	Tests each sample directly.
delta	Tests the delta (or difference) between samples.
rising-threshold <i>value</i>	Specifies the rising threshold value. The range is -2147483648 to 2147483647.
<i>rising-event</i>	Specifies the event to trigger on rising threshold crossing. The range is 1 to 65535.
falling-threshold <i>value</i>	Specifies the falling threshold value. The range is -2147483648 to 2147483647.
<i>falling-event</i>	Specifies the event to trigger on falling threshold crossing. The range is 1 to 65535.
owner <i>alarm-owner</i>	Specifies an owner for the alarm. Maximum size is 80 characters.

Defaults	Disabled.
Command Modes	Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines	The events that can be triggered are configured using the rmon event command.
------------------	--

rmon alarm

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Examples

The following example configures an RMON alarm.

```
switch# config terminal
switch(config)# rmon alarm 20 1.3.6.1.2.1.2.2.1.14.16777216 900 delta rising-threshold 15
1 falling-threshold 0 owner test
```

Related Commands

Command	Description
rmon event	Configures an RMON event.
show rmon	Displays RMON configuration information.

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rmon event

To configure a remote monitoring (RMON) event, use the **rmon event** command in configuration mode. To delete an RMON event, use the **no** form of the command.

```
rmon event event-number [description text [owner owner-name] | log [trap trap-name]
[description text] [owner owner-name] | owner owner-name | trap community-string
[description text] [owner owner-name]]]

no rmon event event-number
```

Syntax Description	<i>event-number</i> Specifies the RMON event number. The range is 1 to 65535. description <i>text</i> Specifies a description of the event. Maximum length is 80 characters. owner <i>owner-name</i> Specifies an owner for the alarm. Maximum length is 80 characters log Generates an RMON log entry when the event is triggered by an alarm. trap <i>community-string</i> Generates an SNMP notification when event is triggered by an alarm. Maximum length is 32 characters.
--------------------	---

Defaults	Disabled.
----------	-----------

Command Modes	Configuration mode.
---------------	---------------------

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines	The events created by this command can be triggered by alarms configured using the rmon alarm command.
------------------	---

Examples	The following example configures an RMON event.
----------	---

```
switch# config terminal
switch(config)# rmon event 2 log trap eventtrap description CriticalErrors owner Test2
```

Related Commands	Command	Description
	rmon alarm	Configures an RMON alarm.
	show rmon	Displays RMON configuration information.

■ role abort

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role abort

To discard an authorization role Cisco Fabric Services (CFS) distribution session in progress, use the **role abort** command in configuration mode.

role abort

Syntax Description This command has no other arguments or keywords.

Defaults None.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to discard an authorization role CFS distribution session in progress.

```
switch# config terminal
switch(config)# role abort
```

Related Commands	Command	Description
	role distribute	Enables CFS distribution for authorization roles.
	show role	Displays authorization role information.

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role commit

To apply the pending configuration pertaining to the authorization role Cisco Fabric Services (CFS) distribution session in progress in the fabric, use the **role commit** command in configuration mode.

role commit

Syntax Description This command has no other arguments or keywords.

Defaults None.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to apply an authorization role configuration to the switches in the fabric.

```
switch# config terminal
switch(config)# role commit
```

Related Commands	Command	Description
	role distribute	Enables CFS distribution for authorization roles.
	show role	Displays authorization roles information.

 role distribute

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role distribute

To enable Cisco Fabric Services (CFS) distribution for authorization roles, use the **role distribute** command. To disable this feature, use the **no** form of the command.

role distribute

no role distribute

Syntax Description This command has no other arguments or keywords.

Defaults Disabled.

Command Modes Configuration mode.

Command History	Release	Modification
	2.0(1b)	This command was introduced.

Usage Guidelines None.

Examples The following example shows how to enable fabric distribution for authorization roles.

```
switch# config terminal
switch(config)# role distribute
```

Related Commands	Command	Description
	role commit	Commits temporary to the authorization role configuration changes to the active configuration.
	show role	Displays authorization role information.

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role name

To configure and assign users to a new role or to modify the profile for an existing role, use the **role name** command in configuration mode. Use the **no** form of this command to delete a configured role.

```
role name name [description user description] [rule number permit clear feature name | permit config feature name | permit debug feature name | permit show feature name] [rule number deny clear feature name | deny config feature name | deny debug feature name | deny exec feature name | deny show feature name]
```

```
no role name name [description user description] [rule number permit clear feature name | permit config feature name | permit debug feature name | permit show feature name] [rule number deny clear feature name | deny config feature name | deny debug feature name | deny exec feature name | deny show feature name]
```

Syntax Description

<i>name</i>	Adds RADIUS server. The maximum size is 32.
<i>description</i>	Add a description for the role. The maximum size is 80.
<i>user description</i>	Add description of users to the role.
<i>exit</i>	Exit from this submode
<i>no</i>	Negate a command or set its defaults
<i>rule</i>	Enter the rule keyword.
<i>number</i>	Enter the rule number 1-16.
<i>permit</i>	Add commands to the role.
<i>deny</i>	Remove commands from the role.
<i>clear</i>	Clear commands
<i>config</i>	Configuration commands
<i>debug</i>	Debug commands
<i>show</i>	Show commands
<i>feature</i>	Enter the feature name
<i>exec</i>	Exec commands
<i>name</i>	Enter the feature name (Max Size - 32)

Defaults

None.

Command Modes

Configuration mode.

Command History

This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

role name

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Usage Guidelines

Roles are assigned rules. Roles are a group of rules defining a user's access to certain commands. Users are assigned roles. The rules within roles can be assigned to permit or deny access to the following commands:

- clear** Clear commands
- config** Configuration commands
- debug** Debug commands
- exec** EXEC commands
- show** Show commands

These commands can have **permit** or **deny** options within that command line.

Examples

The following example shows how to assign users to a new role.

```
switch# config terminal
switch(config)# role name techdocs
switch(config-role)#
switch(config)# no role name techdocs
switch(config)#
switch(config-role)# description Entire Tech. Docs. group
switch(config-role)# no description
switch# config terminal
switch(config)# role name sangroup
switch(config-role)#
switch(config-role)# rule 1 permit config
switch(config-role)# rule 2 deny config feature fspf
switch(config-role)# rule 3 permit debug feature zone
switch(config-role)# rule 4 permit exec feature fcping
switch(config-role)# no rule 4

Role: network-operator
Description: Predefined Network Operator group. This role cannot be modified
Access to Show commands and selected Exec commands
```

Related Commands

Command	Description
show role	Displays all roles configured on the switch including the rules based on each role.

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rscn

To configure a registered state change notification (RSCN), a Fibre Channel service that informs Nx ports about changes in the fabric, use the **rscn** command in configuration mode.

rscn {multi-pid | suppress domain-swrscn} vsan *vsan-id*

Syntax Description	multi-pid Sends RSCNs in multi-PID format. suppress domain-swrscn Suppresses transmission of domain format SW-RCSNs. vsan <i>vsan-id</i> Configures VSAN information or membership. The ID of the VSAN is from 1 to 4093.						
Defaults	None.						
Command Modes	Configuration mode.						
Command History	This command was introduced in Cisco MDS SAN-OS Release 1.0(2).						
Usage Guidelines	None.						
Examples	The following example configures RSCNs in multi-PID format. <pre>switch# config terminal excal-113(config)# rscn multi-pid vsan 1</pre>						
Related Commands	<table border="1"> <thead> <tr> <th>Command</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>show rscn src-table</td> <td>Displays state change registration table,</td> </tr> <tr> <td>show rscn statistics</td> <td>Displays RSCN statistics.</td> </tr> </tbody> </table>	Command	Description	show rscn src-table	Displays state change registration table,	show rscn statistics	Displays RSCN statistics.
Command	Description						
show rscn src-table	Displays state change registration table,						
show rscn statistics	Displays RSCN statistics.						

run-script

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run-script

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

run-script [bootflash: | slot0: | volatile:]filename

Syntax Description	bootflash: Source or destination location for internal bootflash memory. slot0: Source or destination location for the CompactFlash memory or PCMCIA card. volatile: Source or destination location for volatile file system. filename Name of the file containing the commands.
---------------------------	---

Defaults Uses the current default directory.

Command Modes EXEC mode.

Command History This command was introduced in Cisco MDS SAN-OS Release 1.0(2).

Usage Guidelines To use this command, be sure to create the file and specify commands in the required order.

Examples The following example executes the CLI commands specified in the testfile that resides in the slot0 directory.

```
switch# show file slot0:testfile
conf t
interface fc 1/1
no shutdown
end
sh interface fc1/1
```

In response to the **run-script** command, this is the file output:

```
switch# run-script slot0: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 (Fcot not present)
Hardware is Fibre Channel
Port WWN is 20:01:00:05:30:00:48:9e
Admin port mode is auto, trunk mode is on
vsan is 1
```

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```
Beacon is turned off
Counter Values (current):
  0 frames input, 0 bytes, 0 discards
  0 runts, 0 jabber, 0 too long, 0 too short
  0 input errors, 0 CRC, 0 invalid transmission words
  0 address id, 0 delimiter
  0 EOF abort, 0 fragmented, 0 unknown class
  0 frames output, 0 bytes, 0 discards
Received 0 OLS, 0 LRR, 0 NOS, 0 loop init
Transmitted 0 OLS, 0 LRR, 0 NOS, 0 loop init
Counter Values (5 minute averages):
  0 frames input, 0 bytes, 0 discards
  0 runts, 0 jabber, 0 too long, 0 too short
  0 input errors, 0 CRC, 0 invalid transmission words
  0 address id, 0 delimiter
  0 EOF abort, 0 fragmented, 0 unknown class
  0 frames output, 0 bytes, 0 discards
Received 0 OLS, 0 LRR, 0 NOS, 0 loop init
Transmitted 0 OLS, 0 LRR, 0 NOS, 0 loop init
```

rspan-tunnel

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

rspan-tunnel

To associate and bind the SPAN tunnel (ST) port with the RSPAN tunnel, use the **rspan-tunnel** command.

rspan-tunnel interface fc-tunnel *tunnel-id*

rspan-tunnel

Syntax Description	rspan-tunnel Configures the remote SPAN (RSPAN) tunnel. interface Specifies the interface to configure this tunnel. fc-tunnel <i>tunnel-id</i> Specifies the FC tunnel interface. The range is 1 to 255.
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Defaults	None.
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Command Modes	Interface configuration submode.
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Command History	This command was introduced in Cisco MDS SAN-OS Release 1.2(1).
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Usage Guidelines	The interface is not operationally up until the Fibre Channel tunnel mapping is configured in the source and destination switches.
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Examples	The following example configures an interface to associate and bind the ST port with the RSPAN tunnel and enables traffic flow through this interface..
-----------------	---

```
switchS# config t
switchS(config)# interface fc2/1
switchS(config-if)# rspan-tunnel interface fc-tunnel 100
switchS(config-if)# no shutdown
```