



F 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. Please see the Command Mode section to determine the appropriate mode for each command. For more information, see the *Cisco MDS 9000 Family Configuration Guide*.

- `falias`
- `fanalyze`
- `fcc`
- `fcdomain`
- `fcdroplacency`
- `fcflow stats`
- `fcinterop fcid-allocation`
- `fcinterop loop-monitor`
- `fens`
- `fcping`
- `fcroute`
- `fcs`
- `fc timer`
- `fctrace`
- `find`
- `format`
- `fspf config`

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fcalias

To configure an FC alias, use the **fcalias** command.

fcalias name *alias name* **vsan number**

The **no** form of this command disables the daylight saving time adjustment feature.

Syntax Description	Parameter	Description
	fcalias name	Configures an FC alias for a member for the specified vsan.
	<i>alias name</i>	Enters the name of fcalias (Max Size - 64)
	vsan	Configures an fcalias on a VSAN
	<i>number</i>	Enters VSAN number 1-4093

Defaults None

Command Modes Configuration mode

Usage Guidelines To include multiple members in any alias using the FC ID, fWWN, or pWWN values.

Examples

```
switch# config t
switch(config)# fcalias name AliasSample vsan 3
switch-config-fcalias#
switch-config-fcalias# member fcid 0x222222
switch-config-fcalias#
switch-config-fcalias# member pwn 10:00:00:23:45:67:89:ab
switch-config-fcalias#
switch-config-fcalias# member fwn 10:01:10:01:10:ab:cd:ef
switch-config-fcalias#
```

Related Commands	Command	Description
	member fcid <i>type value</i>	Configures alias member for a specified zone.
	member pwn	Configures alias members based on the specified port WWN type and value.
	member fwn	Configures alias members based on the specified fWWN type and value.

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fcanalyzer

To configure the Cisco Fabric Analyzer by issuing the **fcanalyzer** commands.

fcanalyzer [**local brief** | **display-filter** | **limit-frame-size** | **limit-captured-frames write**] [**remote ip_address active port_number**] .

Syntax Description	
fcanalyzer local	Begins capturing the frames locally (supervisor module).
local brief	Displays the protocol summary in a brief format.
display-filter	Displays the filtered frames
limit-frame-size	Limits the size of the frame capture to the first 64 bytes. The allowed range is 64 to 65536 bytes.
limit-captured-frames	Limits the number of frames captured to 10. The allowed range is 0 to 2147483647 frames and the default is 100 frames. Use 0 if you do not want to limit the captures frames.
write	Saves the captured frames to a specified file.
remote	Configures the remote IP address to which the captured frames will be sent.
<i>ip_address</i>	IP address or hostname (Max Size - 1024)
active	Enables active mode (passive is the default) with the remote host.
<i>port_number</i>	Port number

Defaults None.

Command Modes Configuration mode

Usage Guidelines You can capture Fibre Channel control traffic from a switch and decode it without having to disrupt connectivity and without having to be local to the point of analysis.

Examples

```
switch# config t
3switch(config)# fcanalyzer local
Capturing on eth2
switch(config)#
switch(config)# fcanalyzer local brief
Capturing on eth2
switch(config)#
switch(config)# fcanalyzer local display-filter SampleF
Capturing on eth2
switch(config)# fcanalyzer local limit-frame-size 64
Capturing on eth2
switch(config)#
switch(config)# fcanalyzer local limit-captured-frames 10
Capturing on eth2
switch(config)#
switch(config)# fcanalyzer local write SampleFile
Capturing on eth2
switch(config)#
```

port_number

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```
3switch(config)# fcanalyzer remote 10.21.0.3
Capturing on eth2
switch(config)#
switch(config)# fcanalyzer remote 10.21.0.3 active
Capturing on eth2
```

Related Commands	Command	Description
	clear fcanalyzer	Clear the entire list of configured hosts
	show fcanalyzer	Displays the list of hosts configured for a remote capture

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fcc

To assign Fibre Channel Congestion Control priority, use the **fcc priority** command in configuration mode.

fcc [*priority number*]

Syntax Description

fcc	Enables FCC for the entire switch.
priority	Assigns FCC priority for the entire switch.
<i>number</i>	The FCC priority threshold, with 0 being the lowest and 7 being the highest.

Defaults

Disabled (when enabled, what is default priority?)

Command Modes

Configuration mode

Usage Guidelines

FCC reduces the congestion in the traffic without interfering with standard Fibre Channel protocol.

Examples

```
switch# config t
switch(config)# fcc priority 2
switch(config-if)#
```

[Get new example](#)

Related Commands

Command	Description
show fcc	Displays FCC settings

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fcdomain

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

fcdomain [**auto-reconfigure** *vsan number*] [**contiguous-allocation** *vsan number*] [**domain id preferred** *vsan number* | **static c**] [**fabric-name** *name*] [**fcid database** *vsan number* | **persistent** *vsan number*] [**priority** *value vsan number*] [**restart disruptive** *vsan number*] [*vsan number*] [**restart** *vsan number*] [*vsan number*]

no form of this command, disables the FC domain.

Syntax	Description
fcdomain	Define the FCC priority threshold with 0 being the lowest and 7 being the highest.
auto-reconfigure	Configure the autoreconfigure option.
vsan	Enable the automatic reconfiguration option in specified VSAN.
<i>number</i>	Specify the VSAN id 1-4093.
contiguous-allocation	Configure the contiguous allocation option.
vsan	Enables the contiguous allocation option in specified VSAN.
<i>number</i>	Specify the VSAN id 1-4093.
domain	Configures the domain id and its type.
<i>id</i>	Specify the domain id 0-239.
preferred	Configures the domain id as preferred
vsan	Apply preferred domain id to VSAN.
<i>number</i>	Specify the VSAN id 1-4093
static	Configures the domain id as static
vsan	Apply static domain id to VSAN.
<i>number</i>	Specify the VSAN id 1-4093
fabric-name	Configure the fabric name.
<i>name</i>	Configure the fabric name value.
vsan	Apply fabric name to VSAN.
<i>number</i>	Specify the VSAN id 1-4093
fcid	Configure fcdomain persistent FCIDs
database	Enters persistent FCIDs submode
vsan	Apply FC id database to VSAN.
<i>number</i>	Specify the VSAN id 1-4093
persistent	Enables or disables fcdomain persistent FCIDs
vsan	Apply FC id persistent to VSAN.
<i>number</i>	Specify the VSAN id 1-4093
priority	Specify the FC domain priority value ranging from 1-254.
<i>value</i>	Enter value.
vsan	Apply the FC domain priority value to VSAN.
<i>number</i>	Specify the VSAN id 1-4093.
restart disruptive	Force the disruptive fabric reconfiguration option.

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vsan	Apply the disruptive fabric reconfiguration to a VSAN.
<i>number</i>	Specify the VSAN id 1-4093.
restart	Start a disruptive or non-disruptive reconfiguration
vsan	Apply the disruptive or non-disruptive fabric reconfiguration to a VSAN.
<i>number</i>	Specify the VSAN id 1-4093.
vsan	Configure FC domain for a specified the VSAN.
<i>number</i>	Specify the VSAN id 1-4093.

Defaults Enabled

Command Modes Configuration mode

Usage Guidelines Used to select the principle switch, domain ID distribution, reconfigure fabric, and allocate FC IDs.

Examples

```
switch# config t
switch(config)#
switch(config)# fcdomain domain 3 preferred vsan 87
switch(config)#
switch(config)# no fcdomain domain 3 preferred vsan 87
switch(config)# fcdomain domain 2 static vsan 237
switch(config)# no fcdomain domain 2 static vsan 237
switch(config)# fcdomain restart vsan 1
switch(config)#
switch(config)# fcdomain restart disruptive vsan 1
switch(config)#
switch(config)# fcdomain priority 25 VSAN 99
switch(config)# no fcdomain priority 25 VSAN 99
switch(config)#
switch(config)# fcdomain auto-reconfigure vsan 10
switch(config)#
switch(config)# fcdomain contiguous-allocation vsan 81-83
switch(config)#
switch(config)# no fcdomain contiguous-allocation vsan 1030
switch(config)#
switch(config)# fcdomain fabric-name 20:1:ac:16:5e:0:21:01 vsan 3
switch(config)#
switch(config)# no fcdomain fabric-name 20:1:ac:16:5e:0:21:01 vsan 3010
switch(config)#
```

Related Commands

Command	Description
show fcdomain	Displays global information about the fcdomain configurations.

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fcdroplateny

To configure the network and switch drop latency time, use the **fcdroplateny** command.

fcdroplateny [**network** *milliseconds* | **switch** *milliseconds*]

no form of this command, disables the FC latency.

Syntax Description	Command	Description
	fcdroplateny	Enables the automatic reconfiguration option in specified VSAN.
	network <i>milliseconds</i>	Configures network latency in 0-2147483647 milliseconds.
	switch <i>milliseconds</i>	Configures switch latency in 0-2147483647 milliseconds.

Defaults Disabled

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch# config t
switch(config)#
switch(config)# fcdroplateny network 5000
switch(config)#
switch(config)# no fcdroplateny network
switch(config)#
switch(config)# fcdroplateny switch 4000
switch(config)#
switch(config)# no fcdroplateny switch
switch(config)#
```

Related Commands	Command	Description
	show fcdroplateny	Displays the configured latency parameters.

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fcflow stats

To configure fcflow statistics, use the **fcflow stats** command. Use the **no** form of this command to disable the counter.

fcflow stats {**aggregated module** *module-number* | **module** *module-number*}

Syntax Description		
	aggregated	Configures aggregated fcflow statistics.
	module <i>module-number</i>	The number of the module for which fcflow statistics are to be cleared. The module number is a number from 1-9.

Defaults None.

Command Modes Configuration

Usage Guidelines None.

Examples

```
switch-config# fcflow stats aggregated module 1
switch-config#
```

```
switch(config)# no fcflow stats aggregated module 1 index 1005 vsan 1
switch(config)#
```

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fcinterop fcid-allocation

To allocate FC ids on the switch, use the **fcinterop fcid-allocation** command.

fcinterop [fcid-allocation auto | flat | none]

Syntax Description	Command	Description
	fcinterop	Enables the automatic reconfiguration option in specified VSAN.
	fcid-allocation	Sets single fcid interop mode.
	auto	Assign single fcid to compatible HBA's.
	flat	flat Assign single fcid.
	none	Assign fcid range

Defaults **fcinterop fcid-allocation auto**

Command Modes Configuration mode

Usage Guidelines **fcinterop fcid-allocation** command is used to save FC IDs used on a switch.

Examples

```
switch# config t
switch(config)#
switch(config)# fcinterop fcid-allocation none
switch(config)#
switch(config)# fcinterop fcid-allocation flat
switch(config)#
switch(config)# fcinterop fcid-allocation auto
switch(config)#
```

Related Commands	Command	Description
	show flogi database	Verify if a storage device is displayed in the Fabric login (FLOGI) table

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fcinterop loop-monitor

To monitor remove of discs from a loop port, use the **fcinterop loop-monitor** command.

fcinterop loop-monitor

no form of this command disables the loop monitoring.

Syntax Description	Command	Description
	fcinterop	Enables the automatic reconfiguration option in specified VSAN.
	loop-monitor	Set monitoring of NL ports in loop.

Defaults Disabled

Command Modes Configuration mode

Usage Guidelines **fcinterop loop-monitor** command is used to detect devices that are removed from a looped port.

Examples

```
switch# config t
switch(config)#
switch(config)# fcinterop loop-monitor
switch(config)# no fcinterop loop-monitor
```

Related Commands	Command	Description
	show flogi database	Verify if a storage device is displayed in the Fabric login (FLOGI) table.

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fcns

To register name server proxy, use the **fcns proxy-port** command.

fcns [**proxy-port** *wwn_address* | [**vsan** *number*]

Syntax Description	Command	Description
	fcns proxy-port	Registers port world wise name.
	<i>wwn_address</i>	World wide name address
	vsan	Configures a proxy port for the specified VSAN.
	<i>number</i>	VSAN number

Defaults None

Command Modes Configuration mode

Examples

```
switch# config t
switch(config)#
switch(config)# fcns proxy-port 21:00:00:e0:8b:00:26:d
switch(config)#
switch(config)# fcns proxy-port 21:00:00:e0:8b:00:26:d vsan 2
switch(config)#
```

Related Commands	Command	Description
	show fcns	Displays the name server database and statistical information for a specified VSAN or for all VSANs

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fcping

To ping an N-port with a specified FC-id, use the **fcping fcid** command.

fcping {**fcid** *fc-id* **vsan** *vsan-id* [**count** *integer* | **timeout** *value* | **usr-priority**] | **pwwn** *wwn-id*}

Syntax Description	Parameter	Description
	fcid	The FC-ID of the destination N-port.
	<i>fc-id</i>	The port FC-ID, with the format <i>0xhhhhhh</i> .
	pwwn	The PWWN of the destination N-port.
	<i>wwn-id</i>	The port WWN, with the format <i>hh:hh:hh:hh:hh:hh:hh:hh</i> .
	vsan <i>vsan-id</i>	The VSAN ID of the destination N-port (1-4096).
	count <i>integer</i>	Number of frames to send. A value of 0 sends forever.
	timeout	The timeout value.
	usr-priority	The priority the frame receives in the switch fabric.

Defaults None.

Command Modes Exec.

Usage Guidelines None.

Examples This example shows a fcping operation for the specified pWWN or the FCID of the destination. By default, five frames are sent.

```
switch# fcping fcid 0xd70000 vsan 1
28 bytes from 0xd70000 time = 730 usec
28 bytes from 0xd70000 time = 165 usec
28 bytes from 0xd70000 time = 262 usec
28 bytes from 0xd70000 time = 219 usec
28 bytes from 0xd70000 time = 228 usec

5 frames sent, 5 frames received, 0 timeouts
Round-trip min/avg/max = 165/270/730 usec
```

This example shows the setting of the number of frames to be sent using the count option. The range is from 0 through 2147483647. A value of 0 will ping forever.

```
switch# fcping fcid 0xd70000 vsan 1 count 10
28 bytes from 0xd70000 time = 730 usec
28 bytes from 0xd70000 time = 165 usec
28 bytes from 0xd70000 time = 262 usec
28 bytes from 0xd70000 time = 219 usec
28 bytes from 0xd70000 time = 228 usec
28 bytes from 0xd70000 time = 230 usec
28 bytes from 0xd70000 time = 230 usec
28 bytes from 0xd70000 time = 225 usec
28 bytes from 0xd70000 time = 229 usec
```

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```
28 bytes from 0xd70000 time = 183 usec

10 frames sent, 10 frames received, 0 timeouts
Round-trip min/avg/max = 165/270/730 usec
```

This example shows the setting of the timeout value. The default period to wait is 5 seconds. The range is from 1 through 10 seconds.

```
switch# fcping fcid 0xd500b4 vsan 1 timeout 10
28 bytes from 0xd500b4 time = 1345 usec
28 bytes from 0xd500b4 time = 417 usec
28 bytes from 0xd500b4 time = 340 usec
28 bytes from 0xd500b4 time = 451 usec
28 bytes from 0xd500b4 time = 356 usec

5 frames sent, 5 frames received, 0 timeouts
Round-trip min/avg/max = 340/581/1345 usec
```

This command shows the issue of a No response from the N port message even when the N port or NL port is active. This is due to resource exhaustion at the N port or NL port. Retry the command a few seconds later.

```
switch# fcping fcid 0x010203 vsan 1
No response from the N port.

switch# fcping pwn 21:00:00:20:37:6f:db:dd vsan 1
28 bytes from 21:00:00:20:37:6f:db:dd time = 1454 usec
28 bytes from 21:00:00:20:37:6f:db:dd time = 471 usec
28 bytes from 21:00:00:20:37:6f:db:dd time = 372 usec
28 bytes from 21:00:00:20:37:6f:db:dd time = 364 usec
28 bytes from 21:00:00:20:37:6f:db:dd time = 1261 usec

5 frames sent, 5 frames received, 0 timeouts
Round-trip min/avg/max = 364/784/1454 usec
```

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fcroute

To configure Fibre Channel routes, use the **fcroute** command.

fcroute [*FCID FC ID_network mask* | **interface** *type* [**domain** *number* | **metric** *number* | **remote** | **vsan** *vsan-id*]

Syntax Description	Command	Description
	fcroute	Registers port world wide name.
	interface	Configures the route for the specified Fibre Channel interface.
	domain	Configures the route for the specified Fibre Channel domain.
	metric	Assigns the cost of the route. Default cost is 10.
	vsan <i>vsan-id</i>	Configures the static route for a specific vsan.
	remote	Configures the static route for a destination switch remotely connected.

Defaults None

Command Modes Configuration mode

Usage Guidelines Use this command to assign forwarding information to the switch.

Examples

```
switch# config t
switch(config)#
switch(config)# fcroute 0x111211 interface fc1/1 domain 3 vsan 2
switch(config)#
switch(config)# fcroute 0x111211 interface port-channel 1 domain 3 vsan 4
switch(config)#
switch(config)# fcroute 0x031211 interface fc1/1 domain 3 metric 1 vsan 1
switch(config-if)#
switch(config)# fcroute 0x111112 interface fc1/1 domain 3 metric 3 remote vsan 3
```

Related Commands	Command	Description
	show fcroute	Displays Fibre Channel routes.

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fcs

To perform platform and node name checking fabric wide, and register FCS attributes, use the **fcs** command.

fcs {**plat-check-global vsan** *vsan_number* | **register** [**exit** | **no** | **platform**] **VSANname** *name* }

Syntax Description	
fcs	Registers port world wise name.
plat-check-global vsan	Platform Name/Node Name checking
register	Registers FCS attributes
exit	Exits submode
no	Negate a command or set its defaults
platform	Platform Object Registration
vsan name	Name of the Platform

Defaults None.

Command Modes Configuration mode

Usage Guidelines None.

Examples

```
switch## config t
switch(config)##
switch(config)# # fcs plat-check-global vsan 2
switch (config)# fcs register
switch (config-fcs-register)# platform name
```

Related Commands	Command	Description
	show fcs	Displays Fabric Configuration Server information.

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fctimer

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

fctimer {**D_S_TOV** *milliseconds* | **E_D_TOV** *milliseconds* | **R_A_TOV** *milliseconds* **F_S_TOV** *milliseconds*}

Syntax Description

fctimer	Configures Fibre Channel timers
D_S_TOV	D_S_TOV in milliseconds(5000-100000)
E_D_TOV	E_D_TOV in milliseconds(1000-100000) default 2000
R_A_TOV	R_A_TOV in milliseconds(5000-100000) default 10,000
F_S_TOV	F_S_TOV in milliseconds.
<i>milliseconds</i>	milliseconds

Defaults

RA_TOV default is 10 seconds and **ED_TOV** default is 2 seconds

Command Modes

Configuration mode

Usage Guidelines

The Cisco MDS 9000, Brocade, and McData FC Error Detect (ED_TOV) and Resource Allocation (RA_TOV) timers default to the same values. They can be changed if needed. The RA_TOV default is 10 seconds, and the ED_TOV default is 2 seconds. Per the FC-SW2 standard, these values must be the same on each switch within in the fabric.

Examples

```
switch## config t
switch(config)##
switch(config)# fctimer e_d_tov ?
    <1000-100000> E_D_TOV in milliseconds(1000-100000)
switch(config)# fctimer r_a_tov ?
    <5000-100000> R_A_TOV in milliseconds(5000-100000)
```

Related Commands

Command	Description
show fctimer	Displays information.

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fctrace

To trace the route to an N-port, use the **fctrace** command.

```
fctrace [fcid fcid vsan vsan-id [timeout value] | pwwn wwn-id]
```

Syntax Description	Parameter	Description
	fc id	The FC-ID of the destination N-port.
	<i>fc-id</i>	The port FC-ID, with the format <i>0xhhhhhh</i> .
	pwwn	The PWWN of the destination N-port.
	<i>wwn-id</i>	The port WWN, with the format <i>hh:hh:hh:hh:hh:hh:hh:hh</i> .
	vsan <i>vsan-id</i>	The VSAN ID of the destination N-port (1-4096).
	timeout <i>value</i>	The timeout value.

Defaults None.

Command Modes Exec.

Usage Guidelines None.

Examples

```
switch# fctrace fcid 0x660000 vsan 1
Route present for : 0x660000
20:00:00:05:30:00:5f:1e(0xffffc65)
Latency: 0 msec
20:00:00:05:30:00:61:5e(0xffffc66)
Latency: 0 msec
20:00:00:05:30:00:61:5e(0xffffc66)
switch#
```

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find

To display a list of files on a file system, use the **find** command.

find *filename*

Syntax Description	<i>filename</i>	File names with the specified characteristics.
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Defaults	None
-----------------	------

Command Modes	EXEC
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Usage Guidelines	Use the find (Flash file system) command to display more detail about the files in a particular file system.
-------------------------	---

Examples	The following is sample output of all files that begin with the alphabet <i>a</i> :
-----------------	---

```
switch# find a
./accountingd
./acl
./ascii_cfg_server
./arping
```

Related Commands	Command	Description
	cd	Changes the default directory or file system.
	dir	Displays all files in a given file system.

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format

To erase all the information on a module, use the **format** command.

format {bootflash: | slot0:}

Syntax Description This command has no arguments or keywords.

Defaults None.

Command Modes Exec.

Usage Guidelines None,

Examples

```
switch# format bootflash:  
switch#
```

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fspf config

To configure an FSPF feature for the entire VSAN, and to enable or disable FSPF, use the **fspf config** command.

fspf config vsan *vsan-id* | **enable vsan** *vsan-id*

To delete FSPF configuration for the entire VSAN, and to enable or disable FSPF routing protocols, use the **no** form of the command.

Syntax Description	Description
fspf config	Enters the FSPF config mode.
vsan <i>vsan-id</i>	Enters FSPF global configuration mode for the specified VSAN or range of VSANs. If no VSAN ID is specified, the default VSAN is selected.
fspfenable vsan <i>vsan-id</i>	Enables fspf on the entire VSAN.
no fspf config vsan <i>vsan-id</i>	Deletes the FSPF configuration for specified VSAN.
no fspfenable vsan <i>vsan-id</i>	Disables FSPF routing protocol in the specified VSAN.
region <i>region-id</i>	To define the autonomous region to which the switch belongs. The backbone region has <i>region-id</i> =0. The parameter <i>region-id</i> is an unsigned integer value in the range 0-255.
spf hold-time <i>spf-holdtime</i>	To configure the time between two consecutive spf computations. If the time is small then routing will react faster to changes but CPU usage will be more. Default value for FSPF is 0. The parameter <i>spf-holdtime</i> is an integer (0-65535) specifying time in milliseconds.
min-ls-arrival <i>ls-arrival-time</i>	To configure the minimum time before a new link state update for a domain will be accepted by switch. Default value for FSPF is 1000 msec. The parameter <i>ls-arrival-time</i> is an integer (0-65535) specifying time in milliseconds.
min-ls-interval <i>ls-interval-time</i>	To configure the minimum time before a new link state update for a domain will be generated by the switch. Default value for FSPF is 5000 msec. The parameter <i>ls-interval-time</i> is an integer (0-65535) specifying time in milliseconds.

Defaults

In Configuration mode, the default is enabled.

In the FSPF submode, the default is **dynamic**.

Command Modes

Configuration mode, FSPF Configuration mode

Usage Guidelines

Can configure FSPF on VSANs globally.

For the commands issued in fspf configuration mode, you do not have to specify the VSAN number every time. This prevents configuration errors that might result from specifying the wrong VSAN number for these commands.

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Examples

```
switch## config t
switch(config)##
switch(config)# fspf config vsan 1
switch-config-(fspf-config)#
switch-config-(fspf-config)# exit
switch(config)##
switch(config)# no fspf config vsan 3
switch(config)#
switch(config)# no fspf enable vsan 5
switch(config)#
switch(config)# fspf enable vsan 7
switch(config)#
```

Related Commands

Command	Description
show fspf interface	Displays information for each selected interface.
fspf enable	
fspf cost	
fspf hello-interval	
fspf passive	
fspf retransmit	