



## S Commands

---

This chapter describes the Cisco NX-OS FabricPath commands that begin with S.

# spf-interval

To configure an interval for shortest-path-first (SPF) generation, use the **spf-interval** command. To return to the default setting, use the **no** form of this command.

**spf-interval** { *spf-max-wait* | *spf-initial-wait* | *spf-second-wait* }

**no spf-interval** { *spf-max-wait* | *spf-initial-wait* | *spf-second-wait* }

## Syntax Description

|                         |                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>spf-max-wait</i>     | Maximum interval (in seconds) between two consecutive occurrences of a link-state packet (LSP) being generated. The range is from 50 to 120000. |
| <i>spf-initial-wait</i> | Initial LSP generation delay (in milliseconds). The range is from 50 to 120000.                                                                 |
| <i>spf-second-wait</i>  | Hold time between the first and second LSP generation (in milliseconds). The range is from 50 to 120000.                                        |

## Command Default

The defaults are as follows:

- spf-max-wait: 8000
- spf-initial-wait: 50
- spf-second-wait: 50

## Command Modes

FabricPath IS-IS configuration mode

## Command History

| Release     | Modification                 |
|-------------|------------------------------|
| 6.0(2)N1(1) | This command was introduced. |

## Usage Guidelines

This command requires an Enhanced Layer 2 license.

## Examples

This example shows how to configure an interval for SPF generation:

```
switch# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
switch(config)# fabricpath domain default
switch(config-fabricpath-isis)# spf-interval 9000 60 70
switch(config-fabricpath-isis)#
```

## Related Commands

| Command                          | Description                       |
|----------------------------------|-----------------------------------|
| <b>fabricpath domain default</b> | Enables FabricPath Layer 2 IS-IS. |

# switchport mode fabricpath

To configure interfaces as FabricPath ports, use the **switchport mode fabricpath** command. To return the interfaces to the default settings, use the **no** form of this command.

**switchport mode fabricpath**

**no switchport mode**

|                           |                                            |
|---------------------------|--------------------------------------------|
| <b>Syntax Description</b> | This command has no arguments or keywords. |
|---------------------------|--------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                                                                               |
|----------------------|-------------------------------------------------------------------------------|
| <b>Command Modes</b> | Interface configuration mode<br>Virtual Ethernet interface configuration mode |
|----------------------|-------------------------------------------------------------------------------|

| <b>Command History</b> | Release     | Modification                 |
|------------------------|-------------|------------------------------|
|                        | 6.0(2)N1(1) | This command was introduced. |

## Usage Guidelines



### Note

The **no** keyword returns the interface to the default Classical IEEE 802.1Q Ethernet (CE) switchport access interface. The FabricPath ports carry traffic only for those VLANs configured as FabricPath VLANs.

This command requires an Enhanced Layer 2 license.

## Examples

This example shows how to configure specific interfaces as FabricPath ports:

```
switch# configure terminal
switch(config)# interface ethernet 2/11-15
switch(config-if)# switchport mode fabricpath
switch(config-if)# no shutdown
switch(config-if)#
```

This example shows how to configure a virtual Ethernet interface as a FabricPath port:

```
switch# configure terminal
switch(config)# interface vethernet 1
switch(config-if)# switchport mode fabricpath
switch(config-if)# no shutdown
switch(config-if)#
```

**Related Commands**

| Command                     | Description                                                       |
|-----------------------------|-------------------------------------------------------------------|
| <b>show interface brief</b> | Displays a brief summary of the interface status and information. |

# system default switchport fabricpath

To configure the default port mode as FabricPath, use the **system default switchport fabricpath** command. To return to the default settings, use the **no** form of this command.

**system default switchport fabricpath**

**no system default switchport fabricpath**

|                           |                                            |
|---------------------------|--------------------------------------------|
| <b>Syntax Description</b> | This command has no arguments or keywords. |
|---------------------------|--------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                           |
|----------------------|---------------------------|
| <b>Command Modes</b> | Global configuration mode |
|----------------------|---------------------------|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 6.0(2)N1(1)    | This command was introduced. |

|                         |                                                    |
|-------------------------|----------------------------------------------------|
| <b>Usage Guidelines</b> | This command requires an Enhanced Layer 2 license. |
|-------------------------|----------------------------------------------------|

|                 |                                                                          |
|-----------------|--------------------------------------------------------------------------|
| <b>Examples</b> | This example shows how to configure the default port mode as FabricPath: |
|-----------------|--------------------------------------------------------------------------|

```
switch# configure terminal
switch(config)# system default switchport fabricpath
switch(config)#
```

|                         |                            |                                                        |
|-------------------------|----------------------------|--------------------------------------------------------|
| <b>Related Commands</b> | <b>Command</b>             | <b>Description</b>                                     |
|                         | <b>show running-config</b> | Displays the running system configuration information. |

