



Spanning Tree Commands

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spanning-tree bpdu (Global)

To define Bridge Protocol Data Unit (BPDU) handling when the spanning tree is disabled globally or on a single interface, use the **spanning-tree bpdu** command in switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree bpdu {filtering | flooding}
no spanning-tree bpdu
```

Syntax Description	<p>filtering Specifies that BPDU packets are filtered when the spanning tree is disabled on an interface.</p> <p>flooding Specifies that untagged BPDU packets are flooded unconditionally (without applying VLAN rules) to all ports where spanning tree is disabled and the BPDU handling mode is flooding. Tagged BPDU packets are filtered.</p>				
Command Default	The default setting is flooding.				
Command Modes	Switch configuration (config-switch)				
Command History	<table border="1"> <thead> <tr> <th data-bbox="349 913 430 934">Release</th> <th data-bbox="446 913 592 934">Modification</th> </tr> </thead> <tbody> <tr> <td data-bbox="349 955 414 976">3.5.1</td> <td data-bbox="446 955 771 976">This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				
Usage Guidelines	The filtering and flooding modes are relevant when the spanning tree is disabled globally or on a single interface.				

Example

The following example sets the BPDU packet handling mode to flooding when the spanning tree is disabled on an interface:

```
nfvis(config-switch)# spanning-tree bpdu flooding
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

spanning-tree forward-time

To configure the spanning-tree bridge forward time, which is the amount of time a port remains in the listening and learning states before entering the forwarding state, use the **spanning-tree forward-time** command in switch configuration mode. To restore the default configuration, use the **no** form of this command.

spanning-tree forward-time *seconds*
no spanning-tree forward-time

Syntax Description	<i>seconds</i> Specifies the spanning-tree forward time in seconds. Valid range is from 4 to 30.
Command Default	15 seconds
Command Modes	Switch configuration (config-switch)
Command History	Release Modification 3.5.1 This command was introduced.
Usage Guidelines	When configuring the forwarding time, the following relationship should be maintained: $2 * (\text{Forward-Time} - 1) \geq \text{Max-Age} \geq 2 * (\text{Hello-Time} + 1)$

Example

The following example configures the spanning tree bridge forwarding time to 25 seconds:

```
nfvis(config-switch)# spanning-tree forward-time 25  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

spanning-tree hello-time

To configure how often the device broadcasts Hello messages to other devices, use the **spanning-tree hello-time** command in switch configuration mode. To restore the default configuration, use the **no** form of this command

spanning-tree hello-time *seconds*

no spanning-tree hello-time

Syntax Description	<i>seconds</i> Specifies the spanning-tree Hello time in seconds. Range is from 1 to 10.				
Command Default	2 seconds				
Command Modes	Switch configuration (config-switch)				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				
Usage Guidelines	<p>When configuring the Hello time, the following relationship should be maintained:</p> $\text{Max-Age} \geq 2 * (\text{Hello-Time} + 1)$				

Example

The following example configures the spanning-tree bridge hello time to 5 seconds:

```
nfviz(config-switch)# spanning-tree hello-time 5
nfviz(config-switch)# commit
nfviz(config-switch)# end
```

spanning-tree loopback-guard

To shut down an interface if it receives a loopback BPDU, use the **spanning-tree loopback-guard** command in switch configuration mode. To return to the default setting, use the **no** form of this command.

```
spanning-tree loopback-guard  
no spanning-tree loopback-guard
```

Syntax Description

This command has no arguments.

Command Default

None

Command Modes

Switch configuration (config-switch)

Command History

Release Modification

3.5.1 This command was introduced.

Usage Guidelines

This enables shutting down all interfaces if a loopback BPDU is received on it.

Example

```
nfvis(config-switch)# spanning-tree loopback-guard  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

spanning-tree max-age

To configure the STP maximum age, use the **spanning-tree max-age** command in switch configuration mode. To restore the default configuration, use the **no** form of this command.

spanning-tree max-age *seconds*
no spanning-tree max-age

Syntax Description	<i>seconds</i> Specifies the spanning-tree bridge maximum age in seconds. Valid range is from 6 to 40				
Command Default	20 seconds.				
Command Modes	Switch configuration (config-switch)				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				
Usage Guidelines	<p>When configuring the maximum age, the following relationships should be maintained:</p> $2 * (\text{Forward-Time} - 1) \geq \text{Max-Age}$ $\text{Max-Age} \geq 2 * (\text{Hello-Time} + 1)$				

Example

The following example sets the spanning-tree bridge maximum age to 10 seconds.

```
nfviz(config-switch)# spanning-tree max-age 10
nfviz(config-switch)# commit
nfviz(config-switch)# end
```

spanning-tree mode

To select which Spanning Tree Protocol (STP) protocol to run, use the **spanning-tree mode** command in switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree mode {stp | rstp | mst}  
no spanning-tree mode
```

Syntax Description

stp	Specifies that STP is enabled.
rstp	Specifies that the Rapid STP is enabled.
mst	Specifies that the Multiple STP is enabled.

Command Default

The default is **rstp**.

Command Modes

Switch configuration (config-switch)

Command History

Release Modification

3.5.1	This command was introduced.
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Usage Guidelines

In RSTP mode, the device uses STP when the neighbor device uses STP.

In MSTP mode, the device uses RSTP when the neighbor device uses RSTP, and uses STP when the neighbor device uses STP.

Example

The following example enables STP:

```
nfvis(config-switch)# spanning-tree mode stp  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

Example

The following example enables MST:

```
nfvis(config-switch)# spanning-tree mode mst  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

spanning-tree mst configuration

Use the **spanning-tree mst configuration** command to enable configuring an MST region by entering the MST mode.

spanning-tree mst configuration

Command Modes	Switch configuration (config-switch)
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Command History	Release	Modification
	3.8.1	This command was introduced.

Usage Guidelines	For two or more switches to be in the same MST region, they must contain the same VLAN mapping, the same configuration revision number, and the same name.
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Example

The following example configures an MST region.

```
nfvis(config-switch)# spanning-tree mst configuration
nfvis(config-switch-mst)# instance 1 vlan 15
nfvis(config-switch-mst)# name mst_test
nfvis(config-switch-mst)# revision 2
nfvis(config-switch-mst)# commit
```


spanning-tree mst max-hops

Use the **spanning-tree mst max-hops** command to configure the number of hops in an MST region before the BPDU is discarded and the port information is aged out. Use the no form of this command to restore the default configuration.

```
spanning-tree mst max-hops hop-count  
nospinning-tree mst max-hops
```

Syntax Description	<i>hop-count</i> Specifies the number of hops in an MST region before the BPDU is discarded. Valid range is from 1 to 40.
Command Default	The default number of hops is 20.
Command Modes	Switch configuration (config-switch)
Command History	Release Modification 3.8.1 This command was introduced.

Example

The following example configures the maximum number of hops that a packet travels in an MST region before it is discarded to 10.

```
nfvis(config-switch)# spanning-tree mst max-hops 10  
nfvis(config-switch)# commit
```

spanning-tree mst port-priority

Use the **spanning-tree mst port-priority** command to configure the priority of a port. Use the no form of this command to restore the default configuration.

spanning-tree mst *instance-id* **port-priority** *priority*
nospanning-tree mst *instance-id* **port-priority**

Syntax Description	<i>instance-id</i> Specifies the spanning tree instance ID. Valid range is from 1 to 15.
	<i>priority</i> Specifies the port priority. Valid range is from 0 to 240 in multiples of 16.

Command Default The default port priority is 128.

Command Modes Switch configuration (config-switch)

Command History	Release	Modification
	3.8.1	This command was introduced.

Usage Guidelines The priority value must be a multiple of 16.

Example

The following example configures the port priority:

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree mst 1 port-priority 96
nfvis(config-switch-if)# spanning-tree mst 1 cost 2
nfvis(config-switch-if)# commit
```

spanning-tree pathcost method

To set the default path cost method, use the **spanning-tree pathcost** method in switch configuration mode. To return to the default configuration, use the **no** form of this command.

spanning-tree pathcost method {long | short}
no spanning-tree pathcost method

Syntax Description

long Use 32-bit based values for default port path costs.

short Use 16-bit based values for default port path costs.

Command Default

Long path cost method.

Command Modes

Switch configuration (config-switch)

Command History

Release Modification

3.5.1 This command was introduced.

Usage Guidelines

This command applies to all the spanning tree instances on the switch.

- If the short method is selected, the switch calculates the default cost as 100.
- If the long method is selected, the switch calculates the default cost as 20000.

Example

The following example sets the default path cost method to Long.

```
nfvis(config-switch)# spanning-tree pathcost method long  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

spanning-tree priority

To configure the device STP priority, which is used to determine which bridge is selected as the root bridge, use the **spanning-tree priority** command in switch configuration mode. To restore the default device spanning-tree priority, use the **no** form of this command

spanning-tree priority *priority*
no spanning-tree priority

Syntax Description	<i>priority</i> Specifies the bridge priority. Valid range is from 0 to 61440.
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Command Default	The default priority is 32768.
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Command Modes	Switch configuration (config-switch)
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Command History	Release	Modification
	3.5.1	This command was introduced.

Usage Guidelines	<p>The priority value must be a multiple of 4096.</p> <p>The switch with the lowest priority is the root of the spanning tree. When more than one switch has the lowest priority, the switch with the lowest MAC address is selected as the root.</p>
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Example

The following example configures the spanning-tree priority to 12288:

```
nfvis(config-switch)# spanning-tree priority 12288
nfvis(config-switch)# commit
nfvis(config-switch)# end
```

spanning-tree enable

To enable the spanning-tree functionality, use the **spanning-tree enable** command in switch configuration mode. To disable the spanning-tree functionality, use the **no** form of this command.

spanning-tree enable
no spanning-tree enable

Syntax Description

This command has no arguments.

Command Default

Spanning-tree is enabled.

Command Modes

Switch configuration (config-switch)

Command History

Release Modification

3.5.1 This command was introduced.

Example

The following example enables the spanning-tree functionality:

```
nfvis(config-switch)# spanning-tree enable  
nfvis(config-switch)# commit  
nfvis(config-switch)# end
```

spanning-tree bpdu (Interface)

To define Bridge Protocol Data Unit (BPDU) handling when the spanning tree is disabled on a single interface, use the **spanning-tree bpdu** command in interface switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree bpdu {filtering | flooding}
no spanning-tree bpdu
```

Syntax Description	<p>filtering Specifies that BPDU packets are filtered when the spanning tree is disabled on an interface.</p> <p>flooding Specifies that untagged BPDU packets are flooded unconditionally (without applying VLAN rules) to all ports with the spanning tree disabled and the BPDU handling mode of flooding. Tagged BPDU packets are filtered.</p>				
Command Default	The spanning-tree bpdu (Global) command determines the default configuration.				
Command Modes	Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)				
Command History	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				
Usage Guidelines	The filtering and flooding modes are relevant when the spanning tree is disabled globally or on a single interface.				

Example

The following example defines the BPDU packet as flooding when the spanning tree is disabled on Gigabit Ethernet interface 1/1:

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree bpdu flooding
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

spanning-tree bpduguard

To shut down an interface when it receives a Bridge Protocol Data Unit (BPDU), use the **spanning-tree bpduguard** command in interface switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree bpduguard {enable | disable}
no spanning-tree bpduguard
```

Syntax Description

enable Enables BPDU Guard.

disable Disables BPDU Guard.

Command Default

BPDU Guard is disabled.

Command Modes

Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)

Command History

Release Modification

3.5.1 This command was introduced.

Usage Guidelines

BPDU guard can be enabled when the spanning tree is enabled (useful when the port is in the PortFast mode) or disabled.

Example

The following example shuts down the Gigabit Ethernet interface 1/1 when it receives a BPDU.

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree bpduguard enable
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

spanning-tree cost

To configure the spanning-tree path cost for a port, use the **spanning-tree cost** command in interface switch configuration mode. To restore the default configuration, use the **no** form of this command.

spanning-tree cost *cost*

no spanning-tree cost

Syntax Description

cost Specifies the port path cost. Valid range is from 1 to 200000000.

Command Default

Default path cost is determined by port speed and path cost method (long or short).

Table 1:

Interface	Long	Short
Port-channel	20,000	4
Gigabit Ethernet (1000 Mbps)	20,000	4
Ethernet (10 Mbps)	2,000,000	100

Command Modes

Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)

Command History

Release Modification

3.5.1 This command was introduced.

Example

The following example configures the spanning-tree cost on Gigabit Ethernet interface 1/1 to 35000.

```

nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree cost 35000
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end

```


spanning-tree guard root

To enable root guard on all spanning-tree instances on an interface, use the **spanning-tree guard root** command in interface switch configuration mode. Root guard prevents the interface from becoming the root port of the device. Use the **no** form of this command to disable the root guard on the interface.

spanning-tree guard root
no spanning-tree guard root

Syntax Description

This command has no arguments.

Command Default

Root guard is disabled.

Command Modes

Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)

Command History

Release Modification

3.5.1 This command was introduced.

Usage Guidelines

Root guard can be enabled when the device operates in any mode (STP, RSTP, and MSTP).

When root guard is enabled, the port changes to the alternate state if the spanning-tree calculations select the port as the root port.

Example

The following example prevents Gigabit Ethernet interface 1/1 from being the root port of the device.

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree guard root
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

spanning-tree link-type

To override the default link-type setting determined by the port duplex mode, and enable RSTP transitions to the Forwarding state, use the **spanning-tree link-type** command in interface switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree link-type { point-to-point | shared }
no spanning-tree link-type
```

Syntax Description	<p>point-to-point Specifies that the port link type is point-to-point.</p> <p>shared Specifies that the port link type is shared.</p>				
Command Default	The device derives the port link type from the duplex mode. A full-duplex port is considered a point-to-point link and a half-duplex port is considered a shared link.				
Command Modes	Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)				
Command History	<table border="1"> <thead> <tr> <th data-bbox="349 871 430 913">Release</th> <th data-bbox="438 871 771 913">Modification</th> </tr> </thead> <tbody> <tr> <td data-bbox="349 924 430 966">3.5.1</td> <td data-bbox="438 924 771 966">This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				

Example

The following example enables shared spanning-tree on Gigabit Ethernet interface 1/1.

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree link-type shared
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

spanning-tree port-priority

To configure the port priority, use the **spanning-tree port-priority** command in interface switch configuration mode. To restore the default configuration, use the **no** form of this command.

```
spanning-tree port-priority priority  
no spanning-tree port-priority
```

Syntax Description	<i>priority</i> Specifies the port priority. Valid range is from 0 to 240.
Command Default	The default port priority is 128.
Command Modes	Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)
Command History	Release Modification 3.5.1 This command was introduced.
Usage Guidelines	The priority value must be a multiple of 16.

Example

The following example configures the spanning priority on Gigabit Ethernet interface 1/1 to 96.

```
nfvis(config-switch)# interface gigabitEthernet 1/1  
nfvis(config-switch-if)# spanning-tree port-priority 96  
nfvis(config-switch-if)# commit  
nfvis(config-switch-if)# end
```

spanning-tree portfast

To enable the PortFast mode, use the **spanning-tree portfast** command in interface switch configuration mode. In PortFast mode, the interface is immediately put into the forwarding state upon linkup, without waiting for the standard forward time delay. To disable the PortFast mode, use the **no** form of this command.

```
spanning-tree portfast {auto | enable}
no spanning-tree portfast
```

Syntax Description	<p>auto Specifies that the software waits for 3 seconds (with no BPDUs received on the interface) before putting the interface into the PortFast mode.</p> <p>enable Enables an interface to move directly to forwarding on linkup.</p>				
Command Default	PortFast mode is disabled.				
Command Modes	Interface (Gigabit Ethernet, Port Channel) switch configuration (config-switch-if)				
Command History	<table border="1"> <thead> <tr> <th data-bbox="349 861 430 903">Release</th> <th data-bbox="446 861 771 903">Modification</th> </tr> </thead> <tbody> <tr> <td data-bbox="349 903 430 974">3.5.1</td> <td data-bbox="446 903 771 974">This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				

Example

The following example enables the PortFast mode on Gigabit Ethernet interface 1/1:

```
nfvis(config-switch)# interface gigabitEthernet 1/1
nfvis(config-switch-if)# spanning-tree portfast enable
nfvis(config-switch-if)# commit
nfvis(config-switch-if)# end
```

show spanning-tree

To display the spanning-tree configuration, use the **show switch spanning-tree** command in privileged EXEC mode.

```
show switch spanning-tree mstpconfiguration { global | instance-list }
```

```
show switch spanning-tree mstpsummary { instance-global-info | instance-interface-info 2 }
```

Syntax Description	mstp configuration	Displays the MST configuration identifier.
	summary	Displays the spanning-tree summary.
Command Default	None	
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	3.8.1	This command was introduced.
Usage Guidelines	This command only works when MST is enabled.	

Example

The following is a sample output of the **show switch spanning-tree mstp configuration global** command:

```
nfvis# show switch spanning-tree mstp configuration global
spanning-tree mstp configuration global name transit-net
spanning-tree mstp configuration global revision 2
spanning-tree mstp configuration global max-hops 20
```

The following is a sample output of the **show switch spanning-tree mstp configuration instance-list** command:

```
nfvis# show switch spanning-tree mstp configuration instance-list
INSTANCE  VLANS MAPPED      STATE
-----
0          1,2350-2353,2363  enabled
1          15                 enabled
```

show switch spanning-tree

To display the spanning-tree configuration, use the **show switch spanning-tree** command in privileged EXEC mode.

```
switch show spanning-tree [bridge | interface {gigabitEthernet | port-channel} interface-id
| root | summary]
```

Syntax Description		
bridge		Displays the bridge information.
interface		Specifies the interface type.
gigabitEthernet		Specifies Gigabit Ethernet as the interface type.
port-channel		Specifies port channel as the interface type.
<i>interface-id</i>		Specifies the interface ID.
root		Displays the bridge information.
summary		Displays the spanning-tree summary.

Command Default None

Command Modes Privileged EXEC (#)

Command History

Release	Modification
3.5.1	This command was introduced.

Usage Guidelines None

Example

The following is a sample output of the **show switch spanning-tree** command

```
nfvis# show switch spanning-tree
spanning-tree summary admin-status enabled
spanning-tree summary Operation-mode RSTP
spanning-tree summary Port-Cost-Method long
spanning-tree summary Loopback-guard disabled
spanning-tree root Priority 32768
spanning-tree root Address 00:a6:ca:d6:38:50
spanning-tree root Cost 0
spanning-tree root Port 0
spanning-tree root Hello-Time 2
spanning-tree root Max-Age 20
spanning-tree root Forward-Delay 15
spanning-tree bridge Priority 32768
spanning-tree bridge Address 00:a6:ca:d6:38:50
spanning-tree bridge Hello-Time 2
spanning-tree bridge Max-Age 20
```

```
spanning-tree bridge Forward-Delay 15
```

PORT	ADMIN STATE	PRIO. NBR	COST	PORT STATE	ROLE	PORT FAST	TYPE	GUARD ROOT
gi1/0	enabled	128.1	2000000	disabled	Disable	No	--	disabled
gi1/1	enabled	128.2	2000000	disabled	Disable	No	--	disabled
gi1/2	enabled	128.3	2000000	disabled	Disable	No	--	disabled
gi1/3	enabled	128.4	2000000	disabled	Disable	No	--	disabled
gi1/4	enabled	128.5	2000000	disabled	Disable	No	--	disabled
gi1/5	enabled	128.6	2000000	disabled	Disable	No	--	disabled
gi1/6	enabled	128.7	2000000	disabled	Disable	No	--	disabled
gi1/7	enabled	128.8	2000000	disabled	Disable	No	--	disabled

PORT	ADMIN STATE	PRIO. NBR	COST	PORT STATE	ROLE	PORT FAST	TYPE	GUARD ROOT
1	enabled	128.1000	20000	disabled	Disable	No	--	disabled
2	enabled	128.1001	20000	disabled	Disable	No	--	disabled
3	enabled	128.1002	20000	disabled	Disable	No	--	disabled
4	enabled	128.1003	20000	disabled	Disable	No	--	disabled

```
show switch spanning-tree
```