

# **Configuring VLAN Trunks**

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## **Information About VLAN Trunks**

The following sections provide information about VLAN Trunks:

### **Trunking Overview**

A trunk is a point-to-point link between one or more Ethernet interfaces and another networking device such as a router or a controller. Ethernet trunks carry the traffic of multiple VLANs over a single link, and you can extend the VLANs across an entire network.

IEEE 802.1Q— Industry-standard trunking encapsulation is available on all Ethernet interfaces.

## **Trunking Modes**

Ethernet trunk interfaces support different trunking modes. You can set an interface as trunking or nontrunking or to negotiate trunking with the neighboring interface. To autonegotiate trunking, the interfaces must be in the same VTP domain.

Trunk negotiation is managed by the Dynamic Trunking Protocol (DTP), which is a Point-to-Point Protocol (PPP). However, some internetworking devices might forward DTP frames improperly, which could cause misconfigurations.

## **Layer 2 Interface Modes**

Table 1: Layer 2 Interface Modes

Mode	Function
switchport mode access	Puts the interface (access port) into permanent nontrunking mode and negotiates to convert the link into a nontrunk link. The interface becomes a nontrunk interface regardless of whether or not the neighboring interface is a trunk interface.
switchport mode dynamic auto	Makes the interface able to convert the link to a trunk link. The interface becomes a trunk interface if the neighboring interface is set to <b>trunk</b> or <b>desirable</b> mode. The default switchport mode for all Ethernet interfaces is <b>dynamic auto</b> .
switchport mode dynamic desirable	Makes the interface actively attempt to convert the link to a trunk link. The interface becomes a trunk interface if the neighboring interface is set to <b>trunk</b> , <b>desirable</b> , or <b>auto</b> mode.
switchport mode trunk	Puts the interface into permanent trunking mode and negotiates to convert the neighboring link into a trunk link. The interface becomes a trunk interface even if the neighboring interface is not a trunk interface.
switchport nonegotiate	Prevents the interface from generating DTP frames. You can use this command only when the interface switchport mode is <b>access</b> or <b>trunk</b> . You must manually configure the neighboring interface as a trunk interface to establish a trunk link.
switchport mode private-vlan	Configures the private VLAN mode.

### Allowed VLANs on a Trunk

By default, a trunk port sends traffic to and receives traffic from all VLANs. All VLAN IDs, 1 to 4094, are allowed on each trunk. However, you can remove VLANs from the allowed list, preventing traffic from those VLANs from passing over the trunk.

To reduce the risk of spanning-tree loops or storms, you can disable VLAN 1 on any individual VLAN trunk port by removing VLAN 1 from the allowed list. When you remove VLAN 1 from a trunk port, the interface continues to send and receive management traffic, for example, Cisco Discovery Protocol (CDP), Port Aggregation Protocol (PAgP), Link Aggregation Control Protocol (LACP), DTP, and VTP in VLAN 1.

If a trunk port with VLAN 1 disabled is converted to a nontrunk port, it is added to the access VLAN. If the access VLAN is set to 1, the port will be added to VLAN 1, regardless of the **switchport trunk allowed** setting. The same is true for any VLAN that has been disabled on the port.

A trunk port can become a member of a VLAN if the VLAN is enabled, if VTP knows of the VLAN, and if the VLAN is in the allowed list for the port. When VTP detects a newly enabled VLAN and the VLAN is in the allowed list for a trunk port, the trunk port automatically becomes a member of the enabled VLAN. When VTP detects a new VLAN and the VLAN is not in the allowed list for a trunk port, the trunk port does not become a member of the new VLAN.

### **Load Sharing on Trunk Ports**

Load sharing divides the bandwidth supplied by parallel trunks connecting devices. To avoid loops, STP normally blocks all but one parallel link between the devices. Using load sharing, you divide the traffic between the links according to which VLAN the traffic belongs.

You configure load sharing on trunk ports by using STP port priorities or STP path costs. For load sharing using STP port priorities, both load-sharing links must be connected to the same device. For load sharing using STP path costs, each load-sharing link can be connected to the same device or to two different devices.

### **Network Load Sharing Using STP Priorities**

When two ports on the same device form a loop, the device uses the STP port priority to decide which port is enabled and which port is in a blocking state. You can set the priorities on a parallel trunk port so that the port carries all the traffic for a given VLAN. The trunk port with the higher priority (lower values) for a VLAN is forwarding traffic for that VLAN. The trunk port with the lower priority (higher values) for the same VLAN remains in a blocking state for that VLAN. One trunk port sends or receives all traffic for the VLAN.

### **Network Load Sharing Using STP Path Cost**

You can configure parallel trunks to share VLAN traffic by setting different path costs on a trunk and associating the path costs with different sets of VLANs, blocking different ports for different VLANs. The VLANs keep the traffic separate and maintain redundancy in the event of a lost link.

### **Feature Interactions**

Trunking interacts with other features in these ways:

- A trunk port cannot be a secure port.
- Trunk ports can be grouped into EtherChannel port groups, but all trunks in the group must have the same configuration. When a group is first created, all ports follow the parameters set for the first port to be added to the group. If you change the configuration of one of these parameters, the device propagates the setting that you entered to all ports in the group:
  - Allowed-VLAN list.
  - STP port priority for each VLAN.
  - STP Port Fast setting.
  - · Trunk status:

If one port in a port group ceases to be a trunk, all ports cease to be trunks.

- If you try to enable IEEE 802.1x on a trunk port, an error message appears, and IEEE 802.1x is not enabled. If you try to change the mode of an IEEE 802.1x-enabled port to trunk, the port mode is not changed.
- A port in dynamic mode can negotiate with its neighbor to become a trunk port. If you try to enable IEEE 802.1x on a dynamic port, an error message appears, and IEEE 802.1x is not enabled. If you try to change the mode of an IEEE 802.1x-enabled port to dynamic, the port mode is not changed.

# **Prerequisites for VLAN Trunks**

The IEEE 802.1Q trunks impose these limitations on the trunking strategy for a network:

- In a network of Cisco devices connected through IEEE 802.1Q trunks, the devices maintain one spanning-tree instance for each VLAN allowed on the trunks. Non-Cisco devices might support one spanning-tree instance for all VLANs.
- When you connect a Cisco device to a non-Cisco device through an IEEE 802.1Q trunk, the Cisco device combines the spanning-tree instance of the VLAN of the trunk with the spanning-tree instance of the non-Cisco IEEE 802.1Q device. However, spanning-tree information for each VLAN is maintained by Cisco devices separated by a cloud of non-Cisco IEEE 802.1Q devices. The non-Cisco IEEE 802.1Q cloud separating the Cisco device is treated as a single trunk link between the devices.
- Make sure the native VLAN for an IEEE 802.1Q trunk is the same on both ends of the trunk link. If the
  native VLAN on one end of the trunk is different from the native VLAN on the other end, spanning-tree
  loops might result.
- Disabling spanning tree on the native VLAN of an IEEE 802.1Q trunk without disabling spanning tree
  on every VLAN in the network can potentially cause spanning-tree loops. We recommend that you leave
  spanning tree enabled on the native VLAN of an IEEE 802.1Q trunk or disable spanning tree on every
  VLAN in the network. Make sure your network is loop-free before disabling spanning tree.

## **Restrictions for VLAN Trunks**

The following are restrictions for VLAN trunks:

- A trunk port cannot be a secure port.
- Trunk ports can be grouped into EtherChannel port groups, but all trunks in the group must have the same configuration. When a group is first created, all ports follow the parameters set for the first port to be added to the group. If you change the configuration of one of these parameters, the device propagates the setting that you entered to all ports in the group:
  - Allowed-VLAN list.
  - STP port priority for each VLAN.
  - STP Port Fast setting.
  - Trunk status:

If one port in a port group ceases to be a trunk, all ports cease to be trunks.

- If you try to enable IEEE 802.1x on a trunk port, an error message appears, and IEEE 802.1x is not enabled. If you try to change the mode of an IEEE 802.1x-enabled port to trunk, the port mode is not changed.
- A port in dynamic mode can negotiate with its neighbor to become a trunk port. If you try to enable IEEE 802.1x on a dynamic port, an error message appears, and IEEE 802.1x is not enabled. If you try to change the mode of an IEEE 802.1x-enabled port to dynamic, the port mode is not changed.
- Dynamic Trunking Protocol (DTP) is not supported on tunnel ports.

- The device does not support Layer 3 trunks; you cannot configure subinterfaces or use the **encapsulation** keyword on Layer 3 interfaces. The device does support Layer 2 trunks and Layer 3 VLAN interfaces, which provide equivalent capabilities.
- When native VLAN and management VLAN is configured with the same VLAN ID and a new VLAN
  is added as trunk port, both the new VLAN and native VLAN shifts between active and suspend state
  for a duration of 15 seconds. This duration is the time taken for STP to resolve all inconsistencies.

# **How to Configure VLAN Trunks**

To avoid trunking misconfigurations, configure interfaces connected to devices that do not support DTP to not forward DTP frames, that is, to turn off DTP.

- If you do not intend to trunk across those links, use the **switchport mode access** interface configuration command to disable trunking.
- To enable trunking to a device that does not support DTP, use the **switchport mode trunk** and **switchport nonegotiate** interface configuration commands to cause the interface to become a trunk but to not generate DTP frames.

### **Configuring an Ethernet Interface as a Trunk Port**

This section provides information about configuring an Ethernet Interface as a trunk port:

### **Configuring a Trunk Port**

Because trunk ports send and receive VTP advertisements, to use VTP you must ensure that at least one trunk port is configured on the device and that this trunk port is connected to the trunk port of a second device. Otherwise, the device cannot receive any VTP advertisements.

#### Before you begin

By default, an interface is in Layer 2 mode. The default mode for Layer 2 interfaces is **switchport mode dynamic auto**. If the neighboring interface supports trunking and is configured to allow trunking, the link is a Layer 2 trunk or, if the interface is in Layer 3 mode, it becomes a Layer 2 trunk when you enter the **switchport** interface configuration command.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	

	Command or Action	Purpose
	Device# configure terminal	
Step 3	<pre>interface interface-id Example:  Device(config) # interface gigabitethernet 1/0/2</pre>	Specifies the port to be configured for trunking, and enters interface configuration mode.
Step 4	<pre>switchport mode {dynamic {auto   desirable}   trunk}  Example:  Device(config-if)# switchport mode dynamic desirable</pre>	Configures the interface as a Layer 2 trunk (required only if the interface is a Layer 2 access port or tunnel port or to specify the trunking mode).  • dynamic auto—Sets the interface to a trunk link if the neighboring interface is set to trunk or desirable mode. This is the default.  • dynamic desirable—Sets the interface to a trunk link if the neighboring interface is set to trunk, desirable, or auto mode.  • trunk—Sets the interface in permanent trunking mode and negotiate to convert the link to a trunk link even if the neighboring interface is not a trunk interface.
Step 5	<pre>switchport access vlan vlan-id Example:  Device(config-if)# switchport access vlan 200</pre>	(Optional) Specifies the default VLAN, which is used if the interface stops trunking.
Step 6	<pre>switchport trunk native vlan vlan-id Example:  Device(config-if)# switchport trunk native vlan 200</pre>	Specifies the native VLAN for IEEE 802.1Q trunks.
Step 7	<pre>end Example: Device(config)# end</pre>	Returns to privileged EXEC mode.

	Command or Action	Purpose
Step 8	show interfaces interface-id switchport  Example:  Device# show interfaces gigabitethernet 1/0/2 switchport	Displays the switch port configuration of the interface in the <i>Administrative Mode</i> and the <i>Administrative Trunking Encapsulation</i> fields of the display.
Step 9	show interfaces interface-id trunk  Example:  Device# show interfaces gigabitethernet 1/0/2 trunk	Displays the trunk configuration of the interface.
Step 10	copy running-config startup-config  Example:  Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

## **Defining the Allowed VLANs on a Trunk**

VLAN 1 is the default VLAN on all trunk ports in all Cisco devices, and it has previously been a requirement that VLAN 1 always be enabled on every trunk link. You can use the VLAN 1 minimization feature to disable VLAN 1 on any individual VLAN trunk link so that no user traffic (including spanning-tree advertisements) is sent or received on VLAN 1.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 3	interface interface-id	Specifies the port to be configured, and enters
	Example:	interface configuration mode.
	Device(config)# interface gigabitethernet	

	Command or Action	Purpose
	1/0/1	
Step 4	switchport mode trunk	Configures the interface as a VLAN trunk port.
	Example:	
	Device(config-if)# switchport mode trunk	
Step 5	switchport trunk allowed vlan { word   add   all   except   none   remove} vlan-list	(Optional) Configures the list of VLANs allowed on the trunk.
	Example:  Device(config-if)# switchport trunk allowed vlan remove 2	The <i>vlan-list</i> parameter is either a single VLAN number from 1 to 4094 or a range of VLANs described by two VLAN numbers, the lower one first, separated by a hyphen. Do not enter any spaces between comma-separated VLAN parameters or in hyphen-specified ranges.
		All VLANs are allowed by default.
Step 6	end	Returns to privileged EXEC mode.
	Example:	
	Device(config)# end	
Step 7	show interfaces interface-id switchport  Example:	Verifies your entries in the <i>Trunking VLANs Enabled</i> field of the display.
	Device# show interfaces gigabitethernet 1/0/1 switchport	
Step 8	copy running-config startup-config  Example:	(Optional) Saves your entries in the configuration file.
	Device# copy running-config startup-config	

## **Changing the Pruning-Eligible List**

The pruning-eligible list applies only to trunk ports. Each trunk port has its own eligibility list. VTP pruning must be enabled for this procedure to take effect.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.

	Command or Action	Purpose
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 3	interface interface-id	Selects the trunk port for which VLANs should
	Example:	be pruned, and enters interface configuration mode.
	<pre>Device(config)# interface gigabitethernet0/1</pre>	
Step 4	switchport trunk pruning vlan {add   except   none   remove} vlan-list [,vlan [,vlan [,,,]]	Configures the list of VLANs allowed to be pruned from the trunk.
		For explanations about using the <b>add</b> , <b>except</b> , <b>none</b> , and <b>remove</b> keywords, see the command reference for this release.
		Separate non-consecutive VLAN IDs with a comma and no spaces; use a hyphen to designate a range of IDs. Valid IDs are 2 to 1001. Extended-range VLANs (VLAN IDs 1006 to 4094) cannot be pruned.
		VLANs that are pruning-ineligible receive flooded traffic.
		The default list of VLANs allowed to be pruned contains VLANs 2 to 1001.
Step 5	end	Returns to privileged EXEC mode.
	Example:	
	Device(config)# end	
Step 6	show interfaces interface-id switchport	Verifies your entries in the <i>Pruning VLANs</i>
	Example:	Enabled field of the display.
	Device# show interfaces gigabitethernet 1/0/1 switchport	
Step 7	copy running-config startup-config	(Optional) Saves your entries in the
	Example:	configuration file.

Command or Action	Purpose
Device# copy running-config startup-config	

### **Configuring the Native VLAN for Untagged Traffic**

A trunk port configured with IEEE 802.1Q tagging can receive both tagged and untagged traffic. By default, the device forwards untagged traffic in the native VLAN configured for the port. The native VLAN is VLAN 1 by default.

The native VLAN can be assigned any VLAN ID.

If a packet has a VLAN ID that is the same as the outgoing port native VLAN ID, the packet is sent untagged; otherwise, the device sends the packet with a tag.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 3	interface interface-id	Defines the interface that is configured as the
	Example:	IEEE 802.1Q trunk, and enters interface configuration mode.
	Device(config)# interface gigabitethernet 1/0/2	
Step 4	switchport trunk native vlan vlan-id	Configures the VLAN that is sending and
	Example:	receiving untagged traffic on the trunk port.
	Device(config-if)# switchport trunk native vlan 12	For <i>vlan-id</i> , the range is 1 to 4094.
Step 5	end	Returns to privileged EXEC mode.
	Example:	
	Device(config-if)# end	

	Command or Action	Purpose
Step 6	show interfaces interface-id switchport  Example:	Verifies your entries in the <i>Trunking Native Mode VLAN</i> field.
	Device# show interfaces gigabitethernet 1/0/2 switchport	
Step 7	copy running-config startup-config  Example:	(Optional) Saves your entries in the configuration file.
	Device# copy running-config startup-config	

# **Configuring Trunk Ports for Load Sharing**

The following sections provide information about configuring trunk ports for load sharing:

### **Configuring Load Sharing Using STP Port Priorities**

If your switch is a member of a switch stack, you must use the **spanning-tree** [vlan vlan-id] **cost** cost interface configuration command instead of the **spanning-tree** [vlan vlan-id] **port-priority** priority interface configuration command to select an interface to put in the forwarding state. Assign lower cost values to interfaces that you want selected first and higher cost values that you want selected last.

These steps describe how to configure a network with load sharing using STP port priorities.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode on Device A.
	Example:	
	Device# configure terminal	
Step 3	vtp domain domain-name	Configures a VTP administrative domain.
	Example:	The domain name can be 1 to 32 characters.
	Device(config)# vtp domain workdomain	

Command or Action	Purpose
vtp mode server	Configures Device A as the VTP server.
Example:	
Device(config)# vtp mode server	
end	Returns to privileged EXEC mode.
Example:	
Device(config)# end	
show vtp status	Verifies the VTP configuration on both Device A and Device B.
Device# show vtp status	In the display, check the VTP Operating Mode and the VTP Domain Name fields.
show vlan	Verifies that the VLANs exist in the database
Example:	on Device A.
Device# show vlan	
configure terminal	Enters global configuration mode.
Example:	
Device# configure terminal	
interface interface-id	Defines the interface to be configured as a
Example:	trunk, and enters interface configuration mode.
Device(config)# interface gigabitethernet1/0/1	
switchport mode trunk	Configures the port as a trunk port.
Example:	
Device(config-if)# switchport mode trunk	k.
end	Returns to privileged EXEC mode.
Example:	
Device(config-if)# end	
	<pre>vtp mode server Example:     Device(config)# vtp mode server  end Example:     Device(config)# end  show vtp status Example:     Device# show vtp status  show vlan Example:     Device# show vlan  configure terminal Example:     Device# configure terminal  interface interface-id Example:     Device (config)# interface     gigabitethernet1/0/1  switchport mode trunk Example:     Device(config-if)# switchport mode trund end Example:</pre>

	Command or Action	Purpose	
Step 12	show interfaces interface-id switchport	Verifies the VLAN configuration.	
	Example:		
	Device# show interfaces gigabitethernet 1/0/1 switchport		
Step 13	Repeat the above steps on Device A for a second port in the device.		
Step 14	Repeat the above steps on Device B to configure the trunk ports that connect to the trunk ports configured on Device A.		
Step 15	show vlan	When the trunk links come up, VTP passes the	
	Example:	VTP and VLAN information to Device B. This command verifies that Device B has learned	
	Device# show vlan	the VLAN configuration.	
Step 16	configure terminal	Enters global configuration mode on Device	
-	Example:	A.	
	Device# configure terminal		
Step 17	interface interface-id	Defines the interface to set the STP port	
	Example:	priority, and enters interface configuration mode.	
	Device(config)# interface gigabitethernet 1/0/1		
Step 18	spanning-tree vlan vlan-range port-priority	Assigns the port priority for the VLAN range	
	priority-value	specified. Enter a port priority value from 0 to 240. Port priority values increment by 16.	
	Example:		
	Device(config-if)# spanning-tree vlan 8-10 port-priority 16		
Step 19	exit	Returns to global configuration mode.	
	Example:		
	Device(config-if)# exit		
Step 20	interface interface-id	Defines the interface to set the STP port	
	Example:	priority, and enters interface configuration mode.	
	Device(config)# interface		

	Command or Action	Purpose
	gigabitethernet 1/0/2	
Step 21	<pre>spanning-tree vlan vlan-range port-priority priority-value  Example:  Device(config-if) # spanning-tree vlan 3-6 port-priority 16</pre>	Assigns the port priority for the VLAN range specified. Enter a port priority value from 0 to 240. Port priority values increment by 16.
Step 22	<pre>end Example: Device(config-if)# end</pre>	Returns to privileged EXEC mode.
Step 23	show running-config  Example:  Device# show running-config	Verifies your entries.
Step 24	copy running-config startup-config  Example:  Device# copy running-config startup-config	(Optional) Saves your entries in the configuration file.

### **Configuring Load Sharing Using STP Path Cost**

These steps describe how to configure a network with load sharing using STP path costs.

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password if prompted.
	Device> enable	
Step 2	configure terminal	Enters global configuration mode on Device
	Example:	A.
	Device# configure terminal	

	Command or Action	Purpose
Step 3	<pre>interface interface-id Example:  Device(config) # interface gigabitethernet 1/0/1</pre>	Defines the interface to be configured as a trunk, and enters interface configuration mode.
Step 4	switchport mode trunk  Example:  Device(config-if) # switchport mode trunk	Configures the port as a trunk port.
Step 5	<pre>exit Example: Device(config-if)# exit</pre>	Returns to global configuration mode.
Step 6	Repeat Steps 2 through 4 on a second interface in Device A or in Device A stack.	
Step 7	<pre>end Example: Device(config)# end</pre>	Returns to privileged EXEC mode.
Step 8	show running-config  Example:  Device# show running-config	Verifies your entries. In the display, make sure that the interfaces are configured as trunk ports.
Step 9	show vlan  Example:  Device# show vlan	When the trunk links come up, Device A receives the VTP information from the other devices. This command verifies that Device A has learned the VLAN configuration.
Step 10	configure terminal  Example:  Device# configure terminal	Enters global configuration mode.
Step 11	interface interface-id  Example:	Defines the interface on which to set the STP cost, and enters interface configuration mode.

Command or Action	Purpose
Device(config)# interface gigabitethernet 1/0/1	
spanning-tree vlan vlan-range cost cost-value  Example:	Sets the spanning-tree path cost to 30 for VLANs 2 through 4.
<pre>Device(config-if)# spanning-tree vlan 2-4 cost 30</pre>	
end	Returns to global configuration mode.
Example:	
Device(config-if)# end	
Repeat Steps 9 through 13 on the other configured trunk interface on Device A, and set the spanning-tree path cost to 30 for VLANs 8, 9, and 10.	
exit	Returns to privileged EXEC mode.
Example:	
Device(config)# exit	
show running-config	Verifies your entries. In the display, verify that
Example:	the path costs are set correctly for both trunk interfaces.
Device# show running-config	
copy running-config startup-config  Example:	(Optional) Saves your entries in the configuration file.
Device# copy running-config startup-config	
	Device (config) # interface gigabitethernet 1/0/1  spanning-tree vlan vlan-range cost cost-value Example:  Device (config-if) # spanning-tree vlan 2-4 cost 30  end Example:  Device (config-if) # end  Repeat Steps 9 through 13 on the other configured trunk interface on Device A, and set the spanning-tree path cost to 30 for VLANs 8, 9, and 10.  exit Example:  Device (config) # exit  show running-config Example:  Device# show running-config  copy running-config startup-config  Example:  Device# copy running-config

# **Feature History for VLAN Tunks**

This table provides release and related information for features explained in this module.

These features are available on all releases subsequent to the one they were introduced in, unless noted otherwise.

Release	Feature	Feature Information
Cisco IOS XE Fuji 16.9.2	VLAN Trunks	This feature was introduced.  A trunk is a point-to-point link between one or more Ethernet interfaces and another networking device such as a router or a controller. Ethernet trunks carry the traffic of multiple VLANs over a single link, and you can extend the VLANs across an entire network.

Use Cisco Feature Navigator to find information about platform and software image support. To access Cisco Feature Navigator, go to https://cfnng.cisco.com/.

Feature History for VLAN Tunks