



## V Commands

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# vethernet auto-create

To enable the automatic creation of virtual Ethernet interfaces globally, use the **vethernet auto-create** command. To disable automatic creation of virtual Ethernet interfaces, use the **no** form of this command.

**vethernet auto-create**  
**no vethernet auto-create**

**Syntax Description** This command has no arguments or keywords.

**Command Default** Disabled

**Command Modes** Global configuration mode

Release	Modification
7.0(1)N1(1)	This command was introduced.

**Usage Guidelines** Before you use a virtual Ethernet interface, you must enable Cisco Virtual Machine Fabric Extender (VM-FEX) on the switch by using the **feature vmfex** command.

Before you use this command, you must enable Adapter Fabric Extender (Adapter-FEX) on the switch by using the **feature adapter-fex** command.

## Examples

This example shows how to enable automatic creation of virtual Ethernet interfaces on the switch:

```
switch(config)#vethernet auto-create
switch(config)#
```

This example shows how to disable automatic creation of virtual Ethernet interfaces:

```
switch(config)#no vethernet auto-create
switch(config)#
```

## Related Commands

Command	Description
<b>feature adapter-fex</b>	Enables Adapter-FEX on the switch.
<b>feature vmfex</b>	Enables VM-FEX on the switch.
<b>interface vethernet</b>	Configures a virtual Ethernet interface.
<b>port-profile</b>	Configures a port profile.

# vlan

To add a VLAN or to enter the VLAN configuration mode, use the **vlan** command. To delete the VLAN and exit the VLAN configuration mode, use the **no** form of this command.

**vlan** {*vlan-id**vlan-range*}  
**no vlan** {*vlan-id**vlan-range*}

## Syntax Description

<i>vlan-id</i>	Number of the VLAN. The range is from 1 to 4094.  <b>Note</b> You cannot create, delete, or modify VLAN 1 or any of the internally allocated VLANs.
<i>vlan-range</i>	Range of configured VLANs; see the “Usage Guidelines” section for a list of valid values.

## Command Default

None

## Command Modes

Global configuration mode



### Note

You can also create and delete VLANs in the VLAN configuration mode using these same commands.

## Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

## Usage Guidelines

When you enter the **vlan** *vlan-id* command, a new VLAN is created with all default parameters and causes the CLI to enter VLAN configuration mode. If the *vlan-id* argument that you entered matches an existing VLAN, nothing happens except that you enter VLAN configuration mode.

You can enter the *vlan-range* using a comma (,), a dash (-), and the number.

VLAN 1 parameters are factory configured and cannot be changed; you cannot create or delete this VLAN. Additionally, you cannot create or delete VLAN 4095 or any of the internally allocated VLANs.

When you delete a VLAN, all the access ports in that VLAN are shut down and no traffic flows. On trunk ports, the traffic continues to flow for the other VLANs allowed on that port, but the packets for the deleted VLAN are dropped. However, the system retains all the VLAN-to-port mapping for that VLAN, and when you reenables, or recreate, that specified VLAN, the switch automatically reinstates all the original ports to that VLAN.

## Examples

This example shows how to add a new VLAN and enter VLAN configuration mode:

```
switch(config)#vlan 2
switch(config-vlan)#
```

This example shows how to add a range of new VLANs and enter VLAN configuration mode:

```
switch(config)# vlan 2,5,10-12,20,25,4000  
switch(config-vlan)#
```

This example shows how to delete a VLAN:

```
switch(config)#no vlan 2
```

---

**Related Commands**

Command	Description
<b>show vlan</b>	Displays VLAN information.

## vlan dot1Q tag native

To enable dot1q (IEEE 802.1Q) tagging for all native VLANs on all trunked ports on the switch, use the **vlan dot1Q tag native** command. To disable dot1q (IEEE 802.1Q) tagging for all native VLANs on all trunked ports on the switch, use the **no** form of this command.

**vlan dot1Q tag native**  
**no vlan dot1Q tag native**

**Syntax Description** This command has no arguments or keywords.

**Command Default** Disabled

**Command Modes** Global configuration mode

Command History	Release	Modification
	7.0(1)N1(1)	This command was introduced.

**Usage Guidelines** Typically, you configure 802.1Q trunks with a native VLAN ID, which strips tagging from all packets on that VLAN.

To maintain the tagging on the native VLAN and drop untagged traffic, use the **vlan dot1q tag native** command. The switch will tag the traffic received on the native VLAN and admit only 802.1Q-tagged frames, dropping any untagged traffic, including untagged traffic in the native VLAN.

Control traffic continues to be accepted as untagged on the native VLAN on a trunked port, even when the **vlan dot1q tag native** command is enabled.



**Note** The **vlan dot1q tag native** command is enabled on global basis.

### Examples

This example shows how to enable 802.1Q tagging on the switch:

```
switch(config)# vlan dot1q tag native
switch(config)#
```

This example shows how to disable 802.1Q tagging on the switch:

```
switch(config)# no vlan dot1q tag native
Turning off vlan dot1q tag native may impact the functioning of existing dot1q tunnel ports
switch(config)#
```

### Related Commands

Command	Description
<b>show vlan dot1q tag native</b>	Displays the status of tagging on the native VLAN.

## vlan (STP)

To configure spanning tree designated bridge and root bridge priority for VLANs, use the **vlan** command. To revert to the default settings, use the **no** form of this command.

```
vlan instance-id [{designated|root} priority priority-value]  
no vlan instance-id [{designated|root} priority priority-value]
```

### Syntax Description

<i>instance-id</i>	MST instance. The range is from 0 to 4094.
<b>designated</b>	(Optional) Sets the designated bridge priority for the spanning tree.
<b>root</b>	(Optional) Sets the root bridge priority for the spanning tree.
<b>priority</b> <i>priority-value</i>	(Optional) Specifies the STP-bridge priority; the valid values are 0, 4096, 8192, 12288, 16384, 20480, 24576, 28672, 32768, 36864, 40960, 45056, 49152, 53248, 57344, 61440. All other values are rejected.

### Command Default

None

### Command Modes

Spanning-tree pseudo configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

You can enter the *instance-id* argument as a single instance or a range of instances, for example, 0-3,5,7-9. This command does not require a license.

### Examples

This example shows how to configure a spanning-tree domain:

```
switch# configure terminal  
switch(config)# spanning-tree pseudo-information  
switch(config-pseudo)# vlan 1 designated priority 4096  
switch(config-pseudo)# vlan 1 root priority 8192  
switch(config-pseudo)#
```

### Related Commands

Command	Description
<b>show running-config spanning-tree</b>	Displays the running configuration information of the Spanning Tree Protocol (STP).
<b>show spanning-tree</b>	Displays the configuration information of the STP.
<b>spanning-tree pseudo-information</b>	Configures spanning tree pseudo information parameters.

## vmware dvs

To create a VMware distributed virtual switch (DVS), use the **vmware dvs** command. To remove the virtual switch, use the **no** form of this command.

```
vmware dvs {datacenter-name name|uuid dvs-uuid}
no vmware dvs
```

### Syntax Description

<b>datacenter-name</b> <i>name</i>	VMware data centre name, including the path. The name can be a maximum of 256 characters. For example, DCName, DCFolder/DCName.
<b>uuid</b> <i>dvs-uuid</i>	Universally Unique Identifier (UUID) of the Distributed Virtual Switch (DVS) that the Virtual Supervisor Module (VSM) manages. The DVS UUID must be enclosed in quotes and can be a maximum of 80 alphanumeric characters.

### Command Default

None

### Command Modes

SVS connection configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

This command does not require a license.

### Examples

This example shows how to create a VMware virtual switch:

```
switch# configure terminal
switch(config)# svcs connection SVSConn
switch(config-svs-conn)# vmware dvs datacenter-name dcl
switch(config-svs-conn)#
```

This example shows how to remove a VMware virtual switch:

```
switch# configure terminal
switch(config)# svcs connection SVSConn
switch(config-svs-conn)# no vmware dvs datacenter-name dcl
switch(config-svs-conn)#
```

### Related Commands

Command	Description
<b>show svcs connections</b>	Displays SVS connection information.
<b>svcs connection</b>	Enables an SVS connection.

# vmware (virtual Ethernet interface)

To configure a VMware policy on a virtual Ethernet interface, use the **vmware** command. To revert to the defaults, use the **no** form of this command.

```
vmware dvport DVPort_number [dvswitch uuid "DVSwitch_uuid"]
no vmware dvport DVPort_number [dvswitch uuid "DVSwitch_uuid"]
```

## Syntax Description

<b>dvport</b>	Configures distributed virtual (DV) port mapping.
<i>DVPort_number</i>	Distributed virtual (DV) port number. The range is from 0 to 4294967294.
<b>dvswitch uuid</b>	(Optional) Configures the DV switch Universally Unique Identifier (UUID).
<i>DVSwitch_uuid</i>	DV switch UUID in quotes. The ID can be 48 alphanumeric characters.
<b>vm</b>	Configures the virtual machine (VM) mapping.
<b>mac</b>	Configures the VM MAC address mapping.
<i>mac_ID</i>	Virtual machine MAC address in the format <i>EEEE .EEEE .EEEE</i> .

## Command Default

None

## Command Modes

Virtual Ethernet interface configuration mode

## Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

## Usage Guidelines

This command does not require a license.

## Examples

This example shows how to configure a VMware policy on a specific virtual Ethernet interface:

```
switch# configure terminal
switch(config)# interface vethernet 1
switch(config-if)# vmware dvport 3 dvswitch uuid "nexusDVswitch"
switch(config-if)#
```

## Related Commands

Command	Description
<b>show interface vethernet</b>	Displays information about the virtual Ethernet interface configuration.
<b>show running-config interface</b>	Displays the running system configuration information for an interface.

## vrf context

To create a virtual routing and forwarding instance (VRF) and enter VRF configuration mode, use the **vrf context** command. To remove a VRF entry, use the **no** form of this command.

```
vrf context {name|management}
no vrf context {name|management}
```

### Syntax Description

<i>name</i>	Name of the VRF. The name can be a maximum of 32 alphanumeric characters and is case-sensitive.
<b>management</b>	Specifies the management VRF.

### Command Default

None

### Command Modes

Global configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

When you enter the VRF configuration mode, the following commands are available:

- **exit**—Exits from the current command mode.
- **ip**—Enables configuration of IP features.

Additional commands available in IP configuration mode:

- **domain-list**—Adds additional domain names.
- **domain-lookup**—Enables or disables DNS lookup.
- **domain-name**—Specifies the default domain name.
- **host**—Adds an entry to the IP hostname table.
- **name-server**—Specifies the IP address of a DNS name server.
- **route**—Adds route information by specifying IP addresses of the next hop servers.
- **no**—Negates a command or set its defaults.
- **shutdown**—Shuts down the current VRF context.

### Examples

This example shows how to enter VRF context mode:

```
switch(config)#
vrf context management
switch(config-vrf)#
```

### Related Commands

Command	Description
<b>show vrf</b>	Displays VRF information.

## vrf (ERSPAN)

To configure a virtual routing and forwarding (VRF) instance for Encapsulated Remote Switched Port Analyzer (ERSPAN) traffic forwarding in both the source and destination, use the **vrf** command. To revert to the defaults, use the **no** form of this command.

```
vrf {vrf_name|default|management}
no vrf {vrf_name|default|management}
```

Syntax Description		
	<i>vrf_name</i>	Name of the VRF. The VRF name can be any case-sensitive, alphanumeric string up to 32 characters.
	<b>default</b>	Specifies the default VRF instance.
	<b>management</b>	Specifies the management VRF instance.

**Command Default** None

**Command Modes** ERSPAN session configuration mode

Command History	Release	Modification
	7.0(1)N1(1)	This command was introduced.

**Usage Guidelines** This command does not require a license.

**Examples** This example shows how to configure a VRF instance for the ESRSPAN source:

```
switch# configure terminal
switch(config)# monitor session 1 type erspan-source
switch(config-erspan-src)# vrf default
switch(config-erspan-src)#
```

Related Commands	Command	Description
	<b>monitor-session</b>	Enters the monitor configuration mode for configuring an ERSPAN or SPAN session for analyzing traffic between ports.
	<b>show monitor session</b>	Displays information about the Ethernet switched port analyzer (SPAN) or ERSPAN monitor session.

## vnic id (virtual Ethernet interface)

To configure a virtual network interface card (vNIC) ID for a virtual Ethernet interface, use the **vnic** command. To revert to the defaults, use the **no** form of this command.

```
vnic id vnic_ID
no vnic id vnic_ID
```

### Syntax Description

<i>vnic_id</i>	vNIC ID. The range is from 0 to 18446744073709551615.
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### Command Default

None

### Command Modes

Virtual Ethernet interface configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

This command does not require a license.

### Examples

This example shows how to configure a VMware policy on a specific virtual Ethernet interface:

```
switch# configure terminal
switch(config)# interface vethernet 1
switch(config-if)# vnic id 3
switch(config-if)#
```

### Related Commands

Command	Description
<b>show interface vethernet</b>	Displays information about the virtual Ethernet interface configuration.
<b>show running-config interface</b>	Displays the running system configuration information for an interface.

## vtp domain

To configure the name of the VLAN Trunking Protocol (VTP) administrative domain, use the **vtp domain** command. To remove the domain name, use the **no** form of this command.

**vtp domain** *name*

**no vtp domain**

### Syntax Description

<i>name</i>	VTP domain name. The name can be a maximum of 32 ASCII characters.
-------------	--

### Command Default

Blank (NULL)

### Command Modes

Global configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

Before you use this command, you must enable VTP on the switch by using the **feature vtp** command.

VLAN Trunking Protocol (VTP) is a Cisco Proprietary Layer 2 messaging protocol used to distribute the VLAN configuration information across multiple devices within a VTP domain. Without VTP, you must configure VLANs in each device in the network. Using VTP, you configure VLANs on a VTP server and then distribute the configuration to other VTP devices in the VTP domain.

### Examples

This example shows how to create a VTP domain named accounting:

```
switch(config)# vtp domain accounting
switch(config)#
```

### Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the switch.
<b>show running-config vtp</b>	Displays the running VTP configuration.
<b>show vtp status</b>	Displays VTP information.

## vtp file

To store the VLAN Trunking Protocol (VTP) configuration information in a file, use the **vtp file** command. To stop storing the configuration in a file, use the **no** form of this command.

```
vtp file bootflash :server [directory/] filename
no vtp file
```

### Syntax Description

<b>bootflash:</b>	Specifies that the VTP configuration file is to be stored in the bootflash memory of the NVRAM. The colon character (:) is required after the file system name.
<i>server</i>	Name of the server. Valid values are <i>///</i> , <i>//module-1/</i> , <i>//sup-1/</i> , <i>//sup-active/</i> , or <i>//sup-local/</i> . The double slash (//) is required.
<i>directory/</i>	(Optional) Name of the destination directory. The directory name is case sensitive.
<i>filename</i>	Name of the VTP configuration file.



**Note** There can be no spaces in the **bootflash://server/directory/filename** string. Individual elements of this string are separated by colons (:) and slashes (/).

### Command Default

VTP database file, vlan.dat

### Command Modes

Global configuration mode

### Command History

Release	Modification
6.0(2)N1(1)	This command we introduced.

### Usage Guidelines

Before you use this command, you must enable VTP on the switch by using the **feature vtp** command.

The default configuration file is stored in the VTP database, vlan.dat, in NVRAM. VTP configuration information is also stored in the startup configuration file.



**Note** Do not delete the vlan.dat file.

When a switch in a VTP domain reloads, the switch updates the VTP domain and VLAN configuration information from the information contained in the VTP database file (vlan.dat) or the startup configuration file. Depending on the VTP mode configured for the switch, the information is updated as follows:

- **server**—If the startup configuration file indicates the switch to be configured in VTP server mode, the switch recovers the VTP and VLAN configuration information from the VTP database file available in the bootflash storage file system. If the VTP configuration cannot be retrieved from the file in the bootflash file system, the default VLAN configuration (VLANs 1–1005) is applied to the VTP server configuration, and the configuration revision number is set to zero (0).

- **client**—If, within 5 seconds, the VTP client does not receive the VTP configuration information from the VTP server or other VTP devices in the VTP domain, it uses the locally configured VLAN information. This locally configured VTP information is overwritten by the configuration that it later receives from the VTP server.
- **transparent**—If both the VTP database and the startup configuration file show the VTP mode as transparent and the VTP domain names match, the VTP database is ignored. The VTP and VLAN configurations in the startup configuration file are used to restore the configuration in this VTP device.

If the VTP domain information in the startup configuration file does not match with that in the VTP database file, then the configuration in the VTP database file is used to restore the configuration in the transparent VTP device.

In VTP transparent mode, if both the VLAN database and the startup configuration file show the VTP mode as transparent and the VTP domain names match, the VLAN database is ignored. The VTP and VLAN configurations in the startup configuration file are used to restore the configuration in this VTP device. If the VTP domain information in the startup configuration file does not match the VTP database file, then the configuration in the VTP database file is used to restore the configuration in the transparent VTP device.

### Examples

This example shows how to store the VTP configuration to a file named myvtp.txt in the local writable storage file system, bootflash:

```
switch(config)# vtp file bootflash:///myvtp.txt
switch(config)#
```

### Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the switch.
<b>show running-config vtp</b>	Displays the running VTP configuration.
<b>show vtp status</b>	Displays VTP information.

## vtp (interface)

To enable VLAN Trunking Protocol (VTP) on an interface, use the **vtp** command. To disable VTP on an interface, use the **no** form of this command.

**vtp**  
**no vtp**

**Syntax Description** This command has no arguments or keywords.

**Command Default** VTP is enabled on a trunk interface

**Command Modes** Interface configuration mode

Command History	Release	Modification
	7.0(1)N1(1)	This command was introduced.

**Usage Guidelines** Before you use this command, you must enable VTP on the switch by using the **feature vtp** command.

VLAN Trunking Protocol (VTP) is a Cisco Proprietary Layer 2 messaging protocol used to distribute the VLAN configuration information across multiple devices within a VTP domain.

### Examples

This example shows how to enable VTP on an interface:

```
switch(config)# interface ethernet 1/1
switch(config-if)# vtp
switch(config-if)#
```

Related Commands	Command	Description
	<b>copy running-config startup-config</b>	Copies the running configuration to the startup configuration.
	<b>feature vtp</b>	Enables VTP on the switch.
	<b>show running-config vtp</b>	Displays the running VTP configuration.
	<b>show vtp status</b>	Displays VTP information.
	<b>snmp-server enable traps vtp</b>	Enables Simple Network Management Protocol (SNMP) notifications.

## vtp mode

To configure the VLAN Trunking Protocol (VTP) device mode, use the **vtp mode** command. To revert to the default server mode, use the **no** form of this command.

```
vtp mode {client|off|server|transparent}
no vtp mode
```

### Syntax Description

<b>client</b>	Specifies the device as a client.
<b>off</b>	Specifies the device mode as off.
<b>server</b>	Specifies the device as a server.
<b>transparent</b>	Specifies the device mode as transparent.

### Command Default

Server

### Command Modes

Global configuration mode

### Command History

Release	Modification
6.0(2)N1(1)	This command we introduced.

### Usage Guidelines

VLAN Trunking Protocol (VTP) is a Cisco Proprietary Layer 2 messaging protocol used to distribute the VLAN configuration information across multiple devices within a VTP domain. Without VTP, you must configure VLANs in each device in the network. Using VTP, you configure VLANs on a VTP server and then distribute the configuration to other VTP devices in the VTP domain.

In VTP transparent mode, you can configure VLANs (add, delete, or modify) and private VLANs. VTP transparent switches do not participate in VTP. A VTP transparent switch does not advertise its VLAN configuration and does not synchronize its VLAN configuration based on received advertisements. The VTP configuration revision number is always set to zero (0). Transparent switches do forward VTP advertisements that they receive out their trunk ports in VTP version 2.

A VTP device mode can be one of the following:

- **server**—You can create, modify, and delete VLANs and specify other configuration parameters, such as VTP version, for the entire VTP domain. VTP servers advertise their VLAN configuration to other switches in the same VTP domain and synchronize their VLAN configuration with other switches based on advertisements received over trunk links. VTP server is the default mode.



#### Note

You can configure VLANs 1 to 1005. VLANs 1002 to 1005 are reserved for token ring in VTP version 2.

- **client**—VTP clients behave the same way as VTP servers, but you cannot create, change, or delete VLANs on a VTP client.
- **transparent**—You can configure VLANs (add, delete, or modify) and private VLANs. VTP transparent switches do not participate in VTP. A VTP transparent switch does not advertise its VLAN configuration

and does not synchronize its VLAN configuration based on received advertisements. Because of this, the VTP configuration revision number is always set to zero (0). Transparent switches do forward VTP advertisements that they receive out their trunk ports in VTP version 2.

- **off**—In the above three described modes, VTP advertisements are received and transmitted as soon as the switch enters the management domain state. In the VTP **off** mode, switches behave the same as in VTP transparent mode with the exception that VTP advertisements are not forwarded. You can use this VTP device to monitor the VLANs.



**Note** If you use the **no vtp mode** command to remove a VTP device, the device will be configured as a VTP server. Use the **vtp mode off** command to remove a VTP device.

### Examples

This example shows how to configure a VTP device in transparent mode and add VLANs 2, 3, and 4:

```
switch(config)# vtp mode transparent
switch(config)# vlan 2-4
switch(config-vlan)#
```

This example shows how to remove a device configured as a VTP device:

```
switch(config)# no vtp mode off
switch(config)#
```

This example shows how to configure a VTP device as a VTP server and adds VLANs 2 and 3:

```
switch(config)# vtp mode server
switch(config)# vlan 2,3
switch(config-vlan)#
```

This example shows how to configure a VTP device as a client:

```
switch(config)# vtp mode client
switch(config)#
```

### Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the switch.
<b>show vtp status</b>	Displays VTP information.
<b>vlan</b>	Configures VLANs.

## vtp password

To set the password for the VTP administrative domain, use the **vtp password** command. To remove the administrative password, use the **no** form of this command.

**vtp password** *password*

**no vtp password**

### Syntax Description

<i>password</i>	VTP domain password. The password is in ASCII text and can be a maximum of 64 characters.
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### Command Default

None

### Command Modes

Global configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

If you configure a password for VTP, you must configure the password on all switches in the VTP domain. The password must be the same password on all those switches. The VTP password that you configure is translated by an algorithm into a 16-byte word (MD5 value) that is carried in all summary-advertisement VTP packets.

### Examples

This example shows how to configure a password for the VTP administrative domain named accounting:

```
switch(config)# vtp domain accounting
switch(config)# vtp password cisco
switch(config)#
```

### Related Commands

Command	Description
<b>show vtp password</b>	Displays the VTP domain password.
<b>show vtp status</b>	Displays VTP information.

## vtp version

To configure the administrative domain to a VLAN Trunking Protocol (VTP) version, use the **vtp version** command. To revert to the default version, use the **no** form of this command.

**vtp version** *version*  
**no vtp version**

### Syntax Description

<i>version</i>	VTP version. The range is from 1 to 2.
----------------	--

### Command Default

Version 1 enabled  
 Version 2 disabled

### Command Modes

Global configuration mode

### Command History

Release	Modification
7.0(1)N1(1)	This command was introduced.

### Usage Guidelines

Before you use this command, you must enable VTP on the switch by using the **feature vtp** command. If you enable VTP, you must configure either version 1 or version 2. If you are using VTP in a Token Ring environment, you must use version 2.

### Examples

This example shows how to enable VTP version 2 for Token Ring VLANs:

```
switch(config)# vtp version 2
switch(config)#
```

### Related Commands

Command	Description
<b>feature vtp</b>	Enables VTP on the switch.
<b>show vtp status</b>	Displays VTP information.

