



F Commands

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feature adapter-fex

To enable the Adapter Fabric Extender (Adapter-FEX), use the **feature adapter-fex** command. To disable Adapter-FEX, use the **no** form of this command.

feature adapter-fex

no feature adapter-fex

Syntax Description This command has no arguments or keywords.

Command Default Disabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.1(3)N1(1)	This command was introduced.

Usage Guidelines Before you disable this feature on the switch, do the following:

- Remove all virtual Ethernet interface configurations on the switch.
- Remove all port profiles of type vethernet.
- Change the port mode to access by using the **switchport mode access** command.

If you attempt to disable the Adapter-FEX feature with virtual Ethernet interface or port profile configurations enabled, the switch returns an error message.

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.

Examples

This example shows how to enable Adapter-FEX on the switch:

```
switch# configure terminal
switch(config)# feature adapter-fex
Virtualization Plugin license checked out successfully
Virtualization Plugin extracted successfully
All Virtualization processes enabled successfully
switch(config)#
```

This example shows how to disable Adapter-FEX on the switch:

```
switch# configure terminal
switch(config)# no feature adapter-fex
Disabled feature adapter-fex successfully.
You should save the configuration and Reload.
switch(config)#
```

This example shows the error message that appears when you attempt to disable Adapter-FEX on a switch with virtual Ethernet interface configurations enabled:

```
switch# configure terminal
switch(config)# no feature adapter-fex
Disabling of NIV failed.veth and vntag configs found
Shutdown all veths and Remove them.
Change ports with 'switchport mode vntag' to 'switchport mode access'.
switch(config)#
```

Related Commands

Command	Description
interface vethernet	Configures a virtual Ethernet interface.
port-profile	Configures a port profile.
show feature	Displays whether or not Adapter-FEX is enabled on the switch.
switchport mode	Configures the interface as a nontrunking nontagged single-VLAN Ethernet interface.

feature lacp

To enable the Link Aggregation Control Protocol (LACP), which bundles a number of physical ports together to form a single logical channel, use the **feature lacp** command. To disable LACP on the switch, use the **no** form of this command.

feature lacp

no feature lacp

Syntax Description This command has no arguments or keywords.

Command Default LACP is Disabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This command was introduced.

Usage Guidelines You must remove all the LACP configuration parameters from all EtherChannels on the switch before you can disable LACP.

Even after you enable LACP globally, you do not have to run LACP on all EtherChannels on the switch. You enable LACP on each channel mode using the **channel-group mode** command.

Examples This example shows how to enable LACP EtherChannels on the switch:

```
switch(config)# feature lacp
```

Related Commands	Command	Description
	show lacp	Displays information on LACP.
	show feature	Displays whether or not LACP is enabled on the switch.

feature lldp

To enable the Link Layer Discovery Protocol (LLDP) on a device, use the **feature lldp** command in global configuration mode. To disable the LLDP feature, use the **no** form of the command. Feature LLDP is enabled on the switch by default.

feature lldp

no feature lldp

Syntax Description This command has no arguments or keywords.

Command Default Enabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.2(1)N1(1)	This feature was introduced.
	5.2(1)N(4)	The no form of the command was introduced

Usage Guidelines The Cisco Discovery Protocol (CDP) is a device discovery protocol that runs over Layer 2 (the data link layer) on all Cisco-manufactured devices (routers, bridges, access servers, and switches). CDP allows network management applications to automatically discover and learn about other Cisco devices connected to the network.

To support non-Cisco devices and to allow for interoperability between other devices, the switch supports the Link Layer Discovery Protocol (LLDP). LLDP is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other.

The following is an example on how to configure the **feature lldp** command and how to verify the **feature lldp** command on the switch:

```
switch#feature lldp

switch# show running-config

!Command: show running-config
!Time: Tue Feb 10 12:36:03 2009

version 5.0(3)N1(1)
feature telnet
feature lldp

username admin password 5 $1$d8lkfqC8$4VfRuOoZTKvCtTq8VAKbq/ role network-admin
no password strength-check
ip domain-lookup
```

```

hostname switch
class-map type qos class-fcoe
class-map type qos match-all c1
  match cos 1
<--Output truncated-->
switch#

```

The Cisco Discovery Protocol (CDP) is a device discovery protocol that runs over Layer 2 (the data link layer) on all Cisco-manufactured devices (routers, bridges, access servers, and switches). CDP allows network management applications to automatically discover and learn about other Cisco devices connected to the network.

To support non-Cisco devices and to allow for interoperability between other devices, the switch supports the Link Layer Discovery Protocol (LLDP). LLDP is a neighbor discovery protocol that is used for network devices to advertise information about themselves to other devices on the network. This protocol runs over the data-link layer, which allows two systems running different network layer protocols to learn about each other.

Examples

This example shows how to enable LLDP on the switch:

```

switch(config)# feature lldp
switch(config)#

```

This example shows how to disable LLDP on the switch:

```

switch(config)# no feature lldp
switch(config)#

```

Related Commands

Command	Description
lldp	Configures the global LLDP options on the switch.
lldp (Interface)	Configures the LLDP feature on an interface.
show feature	Displays that LLDP is enabled on the switch.

feature poe

To enable Power over Ethernet (PoE), use the **feature poe** command. To disable PoE, use the **no** form of this command.

feature poe

no feature poe

Syntax Description This command has no keywords or arguments.

Command Default Disabled

Command Modes Global configuration mode

Command History	Release	Modification
	5.0(3)N2(1)	This command was introduced.

Examples This example shows how to enable PoE on the switch:

```
switch(config)# feature poe
```

Related Commands	Command	Description
	power inline	Configures the power usage for interfaces.
	show feature	Displays the status of features enabled or disabled on the switch.

feature port-security

To enable port security on Layer 2 interfaces, use the **feature port-security** command. To disable port security, use the **no** form of this command.

feature port-security

no feature port-security

Syntax Description This command has no keywords or arguments.

Command Default Disabled

Command Modes Global configuration mode

Release	Modification
5.1(3)N1(1)	This command was introduced.

Usage Guidelines Use the port security feature to secure a port by limiting and identifying the MAC addresses of the switches that are allowed to access the port.

You can enable port security on a virtual port channel (vPC) port only if the following occurs:

- Port security is enabled on both the vPC peers
- Port security is enabled on the vPC port on both the vPC peers

This command does not require a license.

Examples This example shows how to enable port security on the switch:

```
switch# configure terminal
switch(config)# feature port-security
switch(config)#
```

This example shows how to disable port security on the switch:

```
switch# configure terminal
switch(config)# no feature port-security
switch(config)#
```

Related Commands

Command	Description
show feature	Displays the features that are enabled or disabled on the switch.

Command	Description
show port-security	Displays the port security configuration information.
switchport port-security	Configures the switchport parameters to establish port security.

feature uddl

To enable the Cisco-proprietary Unidirectional Link Detection (UDLD) protocol, which allows ports that are connected through fiber optics or copper Ethernet cables to monitor the physical configuration of the cables and detect when a unidirectional link exists, use the **feature uddl** command. To disable UDLD on the switch, use the **no** form of this command.

feature uddl

no feature uddl

Syntax Description This command has no arguments or keywords.

Command Default UDLD is disabled.

Command Modes Global configuration mode

Release	Modification
5.2(1)N1(1)	This command was introduced.

Examples This example shows how to enable UDLD on the switch:

```
switch(config)# feature uddl
```

Related Commands

Command	Description
show uddl	Displays the administrative and operational UDLD status.
show feature	Displays whether or not UDLD is enabled on the switch.