F Commands

This chapter describes the Cisco NX-OS interface commands that begin with F.

fabric-mode

To select the fabric mode, use the **fabric-mode** command.

fabric-mode {**10g** | **40g**}

Syntax Description

10g-optimized	Sets the fabric mode to 10G.
40g-optimized	Sets the fabric mode to 40G.

Command Default   40G

Command Modes   Global configuration mode

Command History

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

Usage Guidelines   None

Examples   This example shows how to set the fabric mode to 10G:

```
switch# configure terminal
switch(config)# fabric-mode 10g
```

This example shows how to set the fabric mode to 40G:

```
switch# configure terminal
switch(config)# fabric-mode 40g
```

Related Commands

Command	Description

feature bfd

To enable Bidirectional Forwarding Detection (BFD), use the **feature bfd** command. To disable BFD, use the **no** form of this command.

feature bfd

no feature bfd

Syntax Description   This command has no arguments or keywords.

Command Default   LACP is disabled.

Command Modes   Global configuration mode

Command History

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

Usage Guidelines

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

```
switch(config)# feature bfd
```

Related Commands

Command	Description

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
6.0(2)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
6.0(2)N1(1)	This 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: Wed Jan 29 12:36:03 2013

version 6.0(2)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#
```

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 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 arguments or keywords.

Command Default   Disabled

Command Modes   Global configuration mode

Command History

Release	Modification
6.0(2)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.

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

feature udld

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 udld** command. To disable UDLD on the switch, use the **no** form of this command.

feature udld

no feature udld

Syntax Description   This command has no arguments or keywords.

Command Default   UDLD is disabled.

Command Modes   Global configuration mode

Command History

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

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

```
switch(config)# feature udld
```

Related Commands

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