Configuring SFP

Configuring SFP+

Note Several Cisco platforms, NIMs, and SM cards support configuring multiple-rate SFPs on same interface, e.g., 1G SFP or 10G SFP+ on a 10G port.

In a port-channel bundle, all member interfaces should be of same speed, and duplex. It is recommended to use duplex interfaces of the same speed as member interfaces for configuring a port-channel.

For more information about interfaces that support multiple-rate SFPs, see the corresponding datasheets.

SUMMARY STEPS

1. **enable** *source-interface gigabitethernet slot/port*
2. **configure terminal**
3. **interface tengigabitethernet** *slot/port*

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	**enable** *source-interface gigabitethernet slot/port* **Example:** `Router# enable`	Enables the privileged EXEC mode. If prompted, enter your password.
Step 2	**configure terminal** **Example:**	Enters the global configuration mode.

	Command or Action	Purpose
	`Router# configure terminal`	
Step 3	**interface tengigabitethernet** *slot/port* **Example:** `Router(config)# interface tengigabitethernet 4/11`	Specifies the 10-Gigabit Ethernet interface to be configured. Here: slot/port—Specifies the location of the interface.

Configuring FEC

Forward Error Correction (FEC) checks and recovers potential errors during long-range data transmission. The Cisco 8500 Series Secure Router have long range SFP, therefore FEC must be configured.

SUMMARY STEPS

1. **enable** *source-interface gigabitethernet slot/port*
2. **configure terminal**
3. **interface twentyfivegigabitethernet** *slot/port*
4. **fec** { **auto** | **cl108** | **cl74** | **off**}

DETAILED STEPS

Procedure

	Command or Action	Purpose
Step 1	**enable** *source-interface gigabitethernet slot/port* **Example:** `Router# enable`	Enables the privileged EXEC mode. If prompted, enter your password.
Step 2	**configure terminal** **Example:** `Router# configure terminal`	Enters the global configuration mode.
Step 3	**interface twentyfivegigabitethernet** *slot/port* **Example:** `Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11`	Specifies the 10-Gigabit Ethernet interface to be configured. Here: slot/port—Specifies the location of the interface.
Step 4	**fec** { **auto**	**cl108**	**cl74**	**off**} **Example:** `Router(config)# interface twentyfivegigabitethernet 0/0/16 4/11`	Configures FEC. Following are the modes of the fec command: • auto— Enables FEC based on SFP type • cl108— Enables clause108 <= RS-FEC(528,514)

	Command or Action	Purpose
		• cl74— Enables clause74 <= FC-FEC • disable— Disables FEC on interface **Note** • The fec command is only applicable to 25G links. • For 10/25G dual-rate SFP, if the speed is changed from 25G to 10G, fec configuration should be removed first before speed change.