

# **Slot and Subslot Configuration**

This chapter contains information on slots and subslots. Slots specify the chassis slot number in your router and subslots specify the slot where the service modules are installed.

For further information on the slots and subslots, see the "About Slots and Interfaces" section in the Hardware Installation Guide for the Cisco 4000 Series Integrated Services Routers.

The following section is included in this chapter:

• Configuring the Interfaces, on page 1

# **Configuring the Interfaces**

The following sections describe how to configure Gigabit interfaces and also provide examples of configuring the router interfaces:

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- Viewing a List of All Interfaces: Example, on page 3
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## **Configuring Gigabit Ethernet Interfaces**

#### **SUMMARY STEPS**

- 1. enable
- 2. configure terminal
- 3. interface GigabitEthernet slot/subslot/port
- 4. ip address ip-address mask [secondary] dhcp pool
- 5. negotiation auto
- 6. end

### **DETAILED STEPS**

### **Procedure**

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node.				
ode.				
interface.				
• <b>GigabitEthernet</b> —Type of interface.				
• <i>slot</i> —Chassis slot number.				
t number. The slash (/) is				
number. The slash (/) is				
GigabitEthernet				
IP address for the interface.				
ociated IP subnet.				
• <b>secondary</b> (optional)—Specifies that the configured address is a secondary IP address. If this keyword is omitted, the configured address is the primary IP address.				
iated via DHCP.				
nfigured from a local DHCP				
onegotiation.				
n session and returns to				
( E				

### **Configuring the Interfaces: Example**

The following example shows the **interface gigabitEthernet** command being used to add the interface and set the IP address. **0/0/0** is the slot/subslot/port. The ports are numbered 0 to 3.

```
Router# show running-config interface gigabitEthernet 0/0/0
Building configuration...
Current configuration: 71 bytes!
interface gigabitEthernet0/0/0
no ip address
negotiation auto
end

Router# configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# interface gigabitEthernet 0/0/0
```



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.

## **Viewing a List of All Interfaces: Example**

In this example, the **show platform software interface summary** and **show interfaces summary** commands are used to display all the interfaces:

#### Router# show platform software interface summary

	Interface	IHQ	IQD	OHQ	OQD	RXBS	RXPS	TXBS	TXPS	TRTL
*	GigabitEthernet0/0/0	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/1	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/2	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/3	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0	0	0	0	0	0	0	0	0	0

#### Router# show interfaces summary

```
*: interface is up
IHQ: pkts in input hold queue
OHQ: pkts in output hold queue
RXBS: rx rate (bits/sec)
TXBS: tx rate (bits/sec)
TXPS: tx rate (pkts/sec)
TXPS: tx rate (pkts/sec)
TXPS: tx rate (pkts/sec)
```

Ι	nterface	ΙΗQ	IQD	OHQ	OQD	RXBS	RXPS	TXBS	TXPS	TRTL
_										
*	GigabitEthernet0/0/0	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/1	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/2	0	0	0	0	0	0	0	0	0
*	GigabitEthernet0/0/3	0	0	0	0	0	0	0	0	0
*	GigabitEthernet	0	0	0	0	0	0	0	0	0

## **Viewing Information About an Interface: Example**

The following example shows how to display a brief summary of an interface's IP information and status, including the virtual interface bundle information, by using the **show ip interface brief** command:

Router#	ehow.	in	interface	hriaf

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0/0	10.0.0.1	YES	manual	down	down
GigabitEthernet0/0/1	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet0/0/2	10.10.10.1	YES	NVRAM	up	up
GigabitEthernet0/0/3	10.8.8.1	YES	NVRAM	up	up
GigabitEthernet0	172.18.42.33	YES	NVRAM	up	up