Activating IP Connectivity

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After you install the Cisco Video Management and Storage System module hardware into the host router, activate the IP communication link between the host router and the Cisco Video Management and Storage System module. For instructions on installing the Cisco Video Management and Storage System hardware, see *Installing Cisco Network Modules in Cisco Access Routers.*

Note The Cisco Video Management and Storage System software is installed on the module at the factory. Spare modules (that is, field-replaceable spare modules) are also shipped with the software installed.

Before installing new software or upgrading existing software to a later version, you must first establish communications with the Cisco Video Management and Storage System module. After you install new software or upgrade existing software, begin configuring the Cisco Video Management and Storage System software using *Cisco Video Management and Storage System CLI Administrator Guide*.

Activating Module Connectivity

Prerequisites

The following information is required for activating the software:

- Slot and unit numbers of the Cisco Video Management and Storage System module on the Cisco IOS router that hosts the module.
- IP address and subnet mask of the Cisco IOS router that hosts the Cisco Video Management and Storage System module, or the unnumbered interface type and number.
- IP address of the Cisco Video Management and Storage System module.
- IP address of the default gateway of the module. This can be the IP address of the unnumbered interface.

SUMMARY STEPS

1. **interface integrated-service-engine** *slot/unit*
2. **ip unnumbered** *if-type number*
3. **service-module ip address** *ip-address subnet-mask*

4. **service-module external ip address** *ip-address subnet-mask*
5. **service-module ip default-gateway** *gw-ipaddr*
6. **exit**
7. **ip route** *ip-address subnet-mask* **integrated-service-engine** *slot/unit*

DETAILED STEPS

	Command or Action	Purpose

Step 1	**interface integrated-service-engine** *slot/unit*
	
	Example:
	`Router(config)# interface integrated-service-engine 2/0`
	`Router(config-if)#`
		Enters Cisco IOS interface configuration mode.

Step 2	`Router(config-if)#` **ip unnumbered** *if-type* **Example:** `Router(config-if)# ip unnumbered gigabitethernet 0/1`	Specifies the interface IP unnumbered interface type and slot/unit numbers for the Cisco IOS router that hosts the Cisco Video Management and Storage System module.
Step 3	**service-module ip address** *ip-address subnet-mask* **Example:** `Router(config-if)# service-module ip address 172.16.153.11 255.255.255.0`	Specifies the IP address of the Cisco Video Management and Storage System module interface.
Step 4	**service-module external ip address** *ip-address subnet-mask* **Example:** `Router(config-if)# service-module external ip address 10.0.0.19 255.255.255.0`	Specifies the external IP address of the interface.
Step 5	**service-module ip default-gateway** *ip-address* **Example:** `Router(config)# service-module ip default-gateway 172.16.153.21`	Specifies the IP address of the Cisco IOS router that hosts the Cisco Video Management and Storage System module.

Step 6	**exit**
	
	Example:
	`Router(config-if)# exit`
	`Router(config)#`
		Exits Cisco IOS interface configuration mode and enters configuration mode.

Step 7	**ip route** *service-module-ip-address subnet-mask* **integrated-service-engine** *slot/unit* **Example:** `Router(config)# ip route 172.16.153.11 255.255.255.255 integrated-service-engine 2/0`	Sets the IP route IP address and subnet mask of the Cisco Video Management and Storage System module. The IP route command is needed if the IP unnumbered interface type is used.

Examples

The following example shows the IP connectivity activation procedure:

```
Router(config)# interface GigabitEthernet0/1
Router(config-if)# ip address 10.0.0.8 255.255.0.0
Router(config-if)# duplex auto
Router(config-if)# speed auto
Router(config-if)# media-type rj45
Router(config-if)# no keepalive
Router(config-if)# exit
Router(config)# interface integrated-service-engine 2/0
Router(config-if)# ip unnumbered gigabitethernet 0/1
Router(config-if)# service-module ip address 10.0.0.9 255.255.0.0
Router(config-if)# service-module ip default-gateway ip 10.0.0.8
Router(config-if)# exit
Router(config)# ip route 10.0.0.9 255.255.255.255 integrated-service-engine 2/0
```

The following example shows output for the **show running-config** command:

```
Router# show running-config interface i2/0

interface integrated-Service-Engine2/0
ip unnumbered GigabitEthernet0/1
service-module ip address 10.0.0.9 255.255.255.255
service-module ip default-gateway 10.0.0.8
no keepalive
!
```