

Called-Party-Number Port for Cisco 800 Routers

This document describes the Called-Party-Number Port feature.

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Feature Overview

The Cisco 800 series routers connect small professional offices over Integrated Services Digital (ISDN) Basic Rate Interface (BRI) lines to corporate networks and to the Internet. The routers provide bridging and multiprotocol routing capability between LAN and WAN ports. Cisco IOS Release 12.0(5)T provides software support for the Cisco 800 series routers.

Some switches do not include a called-party number when they send a voice call to a Cisco 800 router. These calls are directed to port 1 by default. The feature Called-Party-Number Port allows the router to direct calls of this type to a specified port. When this feature is combined with the command **forward-to-unused-port**, the router can direct a second call to the same port as the first call or to another port.

Benefits

Setting this command allows a Cisco 800 router to direct calls containing no called-party number to specified ports instead of always having these calls directed to port 1, which is the default port. It allows calls to be directed to ports that are not busy.

Restrictions

The Called-Party-Number Port capability for the command **dial-peer voice pots** requires a dial peer with a destination of **not-provided**. If this destination is not included in the command, when a switch sending a voice call does not include a called-party number to a specified port, the Cisco 800 directs the call to POTS port 1.

Supported Platforms

The Called-Party-Number Port feature is supported on the following platforms:

- Cisco 803 router
- Cisco 804 router

Supported Standards, MIBs, and RFCs

None

Configuration Tasks

This section describes setting up the Called-Party-Number Port feature in the Cisco 800 series routers. The following tasks describe the configuration steps:

Step	Task	Command
Step 1	Enter configuration mode.	configure terminal
Step 2	Create a new dial peer for incoming calls without a called-party number.	dial-peer voice tag pots
Step 3	Specify not-provided as the destination pattern.	destination-pattern { ldn not-provided }
Step 4	Select the port to which the call will be directed.	port port
Step 5	Disable or enable the automatic forward to an unused port.	[no] forward-to-unused-port

Configuration Examples

See the section “Examples” in the “Command Reference” section for examples of the command **destination-pattern not-provided**.

Command Reference

This section documents new and modified commands. All other commands used with this feature are documented in the Cisco IOS Release 12.0(5)T command reference publications. This section documents the new command that configures the Called-Party-Number Port feature.

destination-pattern

Use the interface configuration command **destination-pattern** to specify an ISDN directory number for a telephone interface. Use the command **destination-pattern not-provided** to specify the port to receive the incoming calls that have no called-party number. Use the **no** form of the command **destination-pattern** to disable a specified ISDN directory number.

destination-pattern { ldn | not-provided }

no destination-pattern

Syntax Description

<i>ldn</i>	Specify the local ISDN directory number for the telephone interface, which is assigned by your telephone service provider.
not-provided	Enable the Called-Party-Number Port feature, which causes the router to use the dial peer for all the incoming calls that have no called-party number.

Default

No default ISDN directory number is defined.

If a dial peer with a destination of **not-provided** is not configured—that is, if the feature Called-Party-Number Port is not used—the Cisco 800 directs calls without a called-party-number to port 1.

Command Mode

Interface configuration

Command History

Release	Modification
Cisco IOS Release 12.0(5)T	The command destination-pattern not-provided was introduced.

Usage Guidelines

The router allows the destination pattern to be any arbitrary string. Entering **not-p** and pressing the Tab key does not complete the command **not-provided**. Therefore, you need to enter **not-provided** in full.

Examples

In the following example, dial peers are not configured with the command **destination-pattern not-provided**. All incoming calls without a called-party number are therefore directed to port 1.

```
Router> configure terminal
Router(config)> dial-peer voice 1 pots
Router(config-dial-peer)> port 2
Router(config-dial-peer)> forward-to-unused-port
```

In the following example, dial peers are configured with the commands **destination-pattern not-provided** and **no forward-to-unused-port**. These commands configure the router to direct all incoming calls without a called-party number to port 2.

```
Router> configure terminal
Router(config)> dial-peer voice 1 pots
Router(config-dial-peer)> destination-pattern not-provided
Router(config-dial-peer)> port 2
Router(config-dial-peer)> no forward-to-unused-port
```

destination-pattern

In the following example, dial peers are configured with the commands **destination-pattern not-provided** and **forward-to-unused-port**. These commands configure the router to direct incoming calls without a called-party number to port 2. If port 2 already has a call, new incoming calls without a called-party number are directed to port 1.

```
Router> configure terminal
Router(config)> dial-peer voice 1 pots
Router(config-dial-peer)> destination-pattern not-provided
Router(config-dial-peer)> port 2
Router(config-dial-peer)> forward-to-unused-port
```

Related Commands

Command	Description
dial-peer voice pots	Create a dial peer that determines how incoming calls are routed to the telephone ports.
forward-to-unused-port	Enable the dial peer to forward incoming calls to an unused port.
port	Specify a telephone port to which an incoming voice call is routed.
show dial-peer voice pots	Display the dial-peer voice POTS configurations.