



Setting the Port Threshold for the Trunk Card

This feature module describes the Setting the Port Threshold for the Trunk Card feature. It includes the overview, supported platforms, configuration tasks, and a command reference.

This document includes the following sections:

- Feature Overview, page 1
- Supported Platforms, page 2
- Supported Standards, MIBs, and RFCs, page 2
- Prerequisites, page 2
- Configuration Tasks, page 2
- Configuration Examples, page 3
- Command Reference, page 5

Feature Overview

The Setting the Port Threshold for the Trunk Card feature allows you to avoid dropped calls by setting a port threshold that must be reached before a trunk card transmitter is enabled. In platforms with a CT3 Dial Feature Card (DFC) and one or more universal port (previously called NextPort) DFCs, the CT3 DFC reaches active state before the universal port DFCs because the universal port DFCs have a more complicated download and initialization process than does the CT3 DFC. When the CT3 DFC becomes active, the central office can route calls to the platform. However, if the universal port DFC modules are not yet active, the calls are dropped due to unavailability of resources. The central office does not attempt to route calls to the failed platform again; even if the universal port DFCs subsequently become active, the platform still does not receive calls.

The Setting the Port Threshold for the Trunk Card feature provides a new command that allows you to delay the enabling time of the trunk line at system startup to wait for the universal port DFC modules to initialize. The trunk card transmitter is not enabled until after the universal port DFC modules are active, and calls are then routed to the platform.

Benefits

Setting the port threshold for the trunk card allows the universal port DFC modules to be initialized and ready before the trunk card transmitter is enabled. This feature prevents dropped calls caused by the local office routing calls to inactive platforms. Setting the port threshold allows calls to be routed to the platform after the universal port DFC modules are active.

Supported Platforms

- Cisco AS5400

Supported Standards, MIBs, and RFCs

Standards

No new or modified standards are supported by this feature.

MIBs

No new or modified standards are supported by this feature.

To obtain lists of supported MIBs by platform and Cisco IOS release, and to download MIB modules, go to the Cisco MIB web site on Cisco Connection Online (CCO) at <http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>.

RFCs

No new or modified standards are supported by this feature.

Prerequisites

- Cisco IOS Release 12.1(5)T or later releases

Configuration Tasks

See the following sections for configuration tasks for the Setting the Port Threshold for the Trunk Card feature. Each task in the list is identified as either optional or required.

- Configuring the Port Threshold (Required)

Configuring the Port Threshold

	Command	Purpose
Step 1	Router# confi g t	Enters global configuration mode. You have entered global configuration mode when the prompt changes to Router (config) #
Step 2	Router (config) # trunk activate port-threshold percentage	Specifies the percentage of available port resources required to enable a trunk line. Percentage is a decimal integer from 0 through 100 that indicates the percentage of universal port DFC resources required. For example, entering 70 for percentage requires 70 percent of universal port DFC modules to be available before the trunk line is enabled. Entering 100 for percentage requires all universal port DFC modules to be available before the trunk is enabled. The default percentage value, 0, indicates no universal port DFC modules are required to be initialized before enabling the trunk line and the trunk line is enabled as soon as possible. However, if the CT3 DFC is initialized before the universal port DFC modules, calls are dropped because the platform is identified as unavailable.
Step 3	Router (config) # ^Z Router#	Exits back to EXEC mode so you can perform verification steps.

Verifying the Port Threshold

-
- Step 1** Enter the **show running-config** command.
- Step 2** Verify that the port threshold is set by searching for the **trunk activate port-threshold percentage** line in the output.
-

Configuration Examples

This section provides the following configuration examples:

- Port Threshold Example, page 4

Port Threshold Example

In the following example, the port threshold for the trunk card is set to 70 percent:

```
Router# config t

Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)# trunk activate port-threshold 70

Router(config)#^Z
Router#
Router# show running

Building configuration...

Current configuration : 5400 bytes
!
version 12.1
no service single-slot-reload-enable
service timestamps debug uptime
service timestamps log uptime
service password-encryption
!
hostname Router
!
no boot startup-test
no logging buffered
logging rate-limit console 10 except errors
aaa new-model
aaa authentication ppp default local
aaa authorization network default local
!
!
!
resource-pool disable
call rsvp-sync
!
!
!
ip subnet-zero
no ip finger
no ip domain-lookup
!
isdn switch-type primary-ni
cns event-service server
!
!
!
!
!
trunk activate port-threshold 70
!
controller T3 3/0
 framing m23
 clock source line
 t1 1-28 controller
!
```

Command Reference

This section documents the new **trunk activate port-threshold** command that configures the Setting the Port Threshold for the Trunk Card feature. All other commands used with this feature are documented in the Cisco IOS Release 12.1 command reference publications.

trunk activate port-threshold

To specify the percentage of available port resources required to enable a trunk card transmitter, use the **trunk activate port-threshold** command. To restore the default value, use the **no** form of this command.

trunk activate port-threshold *percentage*

no trunk activate port-threshold *percentage*

Syntax Description

<i>percentage</i>	Decimal integer from 0 through 100 that indicates the percentage of universal port DFC resources required before a trunk line is enabled.
-------------------	---

Defaults

0

Command Modes

global configuration

Command History

Release	Modification
12.1(5)T	This command was introduced.

Usage Guidelines

Use this command if you have a CT3 DFC and one or more universal port DFCs on the same platform and calls are dropped at system startup. This command enables the universal port modules to initialize before calls are routed to the platform. If the universal port modules do not initialize, the platform is identified as unavailable and calls are dropped.

Examples

The following example sets the port threshold for the trunk card to 70 percent:

```
Router# config t

Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# trunk activate port-threshold 70

Router(config)# ^Z
Router#
Router# show running

Building configuration...

Current configuration : 5400 bytes
!
version 12.1
no service single-slot-reload-enable
service timestamps debug uptime
service timestamps log uptime
service password-encryption
!
hostname Router
!
no boot startup-test
no logging buffered
logging rate-limit console 10 except errors
aaa new-model
aaa authentication ppp default local
aaa authorization network default local
!
!
!
resource-pool disable
call rsvp-sync
!
!
!
!
ip subnet-zero
no ip finger
no ip domain-lookup
!
isdn switch-type primary-ni
cns event-service server
!
!
!
!
!
trunk activate port-threshold 70
!
controller T3 3/0
 framing m23
 clock source line
 t1 1-28 controller
!
```

■ trunk activate port-threshold