



Configurable per-VC Hold Queue Support for ATM Adapters

This feature module describes the Configurable per-VC Hold Queue Support for ATM Adapters feature and includes the following sections:

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

Feature Overview

This feature allows customers to specify the number of packets contained in the hold queue, per virtual circuit (VC), on ATM adapters that support per-VC queueing.

Benefits

By default, the queueing mechanism in use determines the size of the hold queue, and, therefore, the number of packets contained in the queue. This feature allows customers to expand the default hold queue size and change (or vary) the number of packets the queue can contain. With this new feature, the hold queue can contain a maximum of 1024 packets.

Supported Platforms

This feature is supported only on the Cisco 7200 series, and on 2600 and 3600 series adapters that support per-VC queueing.

Supported Standards, MIBs, and RFCs

Standards

No new or modified standards are supported by this feature.

MIBs

No new or modified MIBs are supported by this feature.

For descriptions of supported MIBs and how to use MIBs, see the Cisco MIB web site on CCO at <http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>.

RFCs

No new or modified RFCs are supported by this feature.

Configuration Tasks

See the following sections for configuration tasks for the Configurable per-VC Hold Queue Support for ATM Adapters feature. Each task in the list is identified as optional or required.

- Configuring the per-VC Hold Queue on an ATM Adapter (Required)
- Verifying the Configuration of the per-VC Hold Queue on an ATM Adapter (Optional)

Configuring the per-VC Hold Queue on an ATM Adapter

To configure the per-VC hold queue on an ATM adapter, use the following command in global configuration mode:

Command	Purpose
Router# vc-hold-queue <i>number-of-packets</i>	Specifies the number of packets contained in the per-VC hold queue. This can be a number from 5 to 1024.

Verifying the Configuration of the per-VC Hold Queue on an ATM Adapter

To verify the configuration of the per-VC hold queue on an ATM adapter, use the following command in global configuration mode:

Command	Purpose
Router# show queueing interface	Displays the queueing statistics of an interface or VC.

Configuration Examples

This section provides the following configuration example:

- Configurable per-VC Hold Queue Example

Configurable per-VC Hold Queue Example

The following example sets the per-VC hold queue to 55:

```
interface atm2/0.1
 pvc 1/101
  vc-hold-queue 55
```

Command Reference

This section documents the new **vc-hold-queue** command. All other commands used with this feature are documented in the Cisco IOS Release 12.1 command reference publications.

vc-hold-queue

To configure the per-virtual circuit (VC) hold queue on an ATM adapter, use the **vc-hold-queue** interface configuration command. To return to the default value of the per-VC hold queue, use the **no** form of this command.

vc-hold-queue *number-of-packets*

no vc-hold-queue *number-of-packets*

Syntax Description

<i>number-of-packets</i>	Specifies number of packets that can be configured for the per-VC hold queue. Number of packets can be a minimum of 5 to a maximum of 1024.
--------------------------	---

Defaults

The default value of the hold queue is set by the queueing mechanism in use.

Command Modes

Interface configuration

Command History

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

Usage Guidelines

This command can only be used on the Cisco 7200 series, and on 2600 and 3600 adapters that support per-VC queueing.

This command is configurable at the VC level only.

Examples

The following example sets the per-VC hold queue to 55:

```
interface atm2/0.1
 pvc 1/101
  vc-hold-queue 55
```

Related Commands

Command	Description
hold-queue	Specifies the hold-queue limit of an interface.
show interfaces	Displays statistics for all interfaces configured on the router or access server.
show queueing interface	Displays the queueing statistics of an interface or VC.