Frame Relay show Command and debug Command Enhancements

Last Updated: October 6, 2011

The Frame Relay show Command and debug Command Enhancements feature provides the ability to filter the output of certain Frame Relay **show** and **debug** commands on the basis of the interface and data-link connection identifier (DLCI). These enhancements facilitate network scalability and simplify network management and troubleshooting.

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest feature information and caveats, see the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the Feature Information Table at the end of this document.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Information About Frame Relay show Command and debug Command Enhancements

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Overview of the Frame Relay show Command and debug Command Enhancements

This feature introduces the following enhancments:

- The **show frame-relay map** command has been enhanced to allow map information to be displayed for specific interfaces and DLCIs.
- The **show frame-relay ip tcp header-compression** and **show frame-relay ip rtp header-compression** commands have been enhanced to allow header-compression information to be displayed for specific DLCIs.
- The **summary** keyword was added to the **show frame-relay pvc** command, allowing a summary of all PVCs on the system to be displayed.
- Conditional debugging support, which allows debug output to be filtered on the basis of interface and DLCI, was introduced for the following commands:
  - **debug frame-relay end-to-end**
  - **debug frame-relay events**
  - **debug frame-relay fragment**
  - **debug frame-relay fragment event**
  - **debug frame-relay ip**
  - **debug frame-relay ppp**
  - **debug frame-relay verbose**

Note Conditional debugging for Frame Relay **debug** commands is configured by using the **debug condition** command.

Benefits of the Frame Relay Show Command and Debug Command Enhancements

The Frame Relay show Command and debug Command Enhancements allow the output for some Frame Relay **show** commands and **debug** commands to be filtered on the basis of interface and DLCI. This enhancement saves network administrators time and frustration by eliminating the need to look through a large amount of output for information about a specific interface or DLCI. These enhancements can also reduce the amount of CPU processing time that is required to generate large amounts of **show** and **debug** output.

Additional References

Related Documents

Related Topic	Document Title
Cisco IOS XE Wide-Area Networking configuration tasks	*Cisco IOS XE Wide-Area Networking Configuration Guide*, Release 2
Wide-Area networking commands	*Cisco IOS Wide-Area Networking Command Reference*

Standards

Standard	Title
None	--

MIBs

MIB	MIBs Link
No new or modified MIBs are supported by this feature, and support for existing MIBs has not been modified by this feature.	To locate and download MIBs for selected platforms, Cisco IOS XE software releases, and feature sets, use Cisco MIB Locator found at the following URL: http://www.cisco.com/go/mibs

RFCs

RFC	Title
None	--

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies. To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds. Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	http://www.cisco.com/cisco/web/support/index.html

Feature Information for Frame Relay show Command and debug Command Enhancements

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

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Table 1 Feature Information for Frame Relay show Command and debug Command Enhancements

Feature Name	Releases	Feature Information
Frame Relay show Command and debug Command Enhancements	Cisco IOS XE Release 2.1	The Frame Relay show Command and debug Command Enhancements feature provides the ability to filter the output of certain Frame Relay **show** and **debug** commands on the basis of the interface and DLCI.