



X.25 Data Display Trace

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The X.25 Data Display Trace feature enhances the Cisco IOS debugging capability for X.25. This feature enables an authorized user to display the entire X.25-encoded traffic stream, including user data, for those packets specified by an X.25 debug command.

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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.

Displaying the Contents of X.25 Packets

To augment the reporting of X.25 traffic information to include the contents of the X.25 packets, use the commands listed in the following task. Note that an entry of the **debug x25**, **debug x25 interface**, **debug x25 vc**, or **debug x25 xot** commands will override any prior entry of any of these commands.



Caution

The reported X.25 packet information may contain sensitive data; for example, clear-text account identities and passwords. The network access policies and router configuration should be controlled appropriately to address this risk.



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**Caution**

The X.25 debug commands can generate large amounts of debugging output. If logging of debug output to the router console is enabled (the default condition), this output may fill the console buffer, preventing the router from processing packets until the contents of the console buffer have been printed.

SUMMARY STEPS

1. **enable**
2. **debug x25** [**only** | **cmns**| **xot**] [**events** | **all**] [**dump**]
3. **debug x25 interface** {*serial-interface* | *cmns-interface* [**mac mac-address**]} [**vc number**][**events** | **all**] [**dump**]
4. **debug x25 vc number** [**events** | **all**] [**dump**]
5. **debug x25 xot** [**remote ip-address** [**port number**]] [**local ip-address** [**port number**]] [**events** | **all**] [**dump**]

DETAILED STEPS

Command or Action	Purpose
Step 1 enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.
Step 2 debug x25 [only cmns xot] [events all] [dump] Example: Router# debug x25 events	Displays information about all X.25 traffic or a specific X.25 service class. <ul style="list-style-type: none"> • Use the dump keyword to display the contents, including user data, of X.25 packets.
Step 3 debug x25 interface { <i>serial-interface</i> <i>cmns-interface</i> [mac mac-address]} [vc number][events all] [dump] Example: Router# debug x25 interface serial 0 dump	Displays information about X.25, Annex G or CMNS contexts or virtual circuits that occur on the identified interface. <ul style="list-style-type: none"> • CMNS reports may be restricted to packets occurring on the interface with the specified remote host. • Use the dump keyword to display the contents, including user data, of X.25 packets.
Step 4 debug x25 vc number [events all] [dump] Example: Router# debug x25 vc 1 events	Displays information about traffic for all virtual circuits that use a given number. <ul style="list-style-type: none"> • Use the dump keyword to display the contents, including user data, of X.25 packets.

Command or Action	Purpose
<p>Step 5 <code>debug x25 xot [remote ip-address [port number]] [local ip-address [port number]] [events all] [dump]</code></p> <p>Example:</p> <pre>Router# debug x25 xot remote 10.0.155.71 port 1998</pre>	<p>Displays information about traffic to or from a specific X.25 over TCP (XOT) host.</p> <ul style="list-style-type: none"> Use the dump keyword to display the contents, including user data, of X.25 packets.

Additional References

Related Documents

Related Topic	Document Title
X.25 configuration tasks	<i>Cisco IOS Wide-Area Networking Configuration Guide , Release 12.3</i>
X.25 commands	<i>Cisco IOS Wide-Area Networking Command Reference , Release 12.3</i>

Standards

Standards	Title
<i>ITU-T 1993 Recommendation X.25</i>	Interface between DTE and DCE for terminals operating in the packet mode and connected to public data networks by dedicated circuit

Technical Assistance

Description	Link
Technical Assistance Center (TAC) home page, containing 30,000 pages of searchable technical content, including links to products, technologies, solutions, technical tips, and tools. Registered Cisco.com users can log in from this page to access even more content.	http://www.cisco.com/public/support/tac/home.shtml

Feature Information for X.25 Data Display Trace

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 X.25 Data Display Trace**

Feature Name	Releases	Feature Information
X.25 Data Display Trace	12.3(2)T	<p>The X.25 Data Display Trace feature enhances the Cisco IOS debugging capability for X.25. This feature enables an authorized user to display the entire X.25-encoded traffic stream, including user data, for those packets specified by an X.25 debug command.</p> <p>In Cisco IOS Release 12.3(2)T, this feature was introduced</p> <p>The following commands were introduced or modified: debug x25, debug x25 interface, debug x25 vc.</p>

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