



## 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.

### Feature History for the X.25 Data Display Trace Feature

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#### Feature History

Release	Modification
12.3(2)T	This feature was introduced.

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### Finding Support Information for Platforms and Cisco IOS Software Images

Use Cisco Feature Navigator to find information about platform support and Cisco IOS software image support. Access Cisco Feature Navigator at <http://www.cisco.com/go/fn>. You must have an account on Cisco.com. If you do not have an account or have forgotten your username or password, click **Cancel** at the login dialog box and follow the instructions that appear.

## Contents

- [Displaying the Contents of X.25 Packets, page 1](#)
- [Additional References, page 3](#)
- [Command Reference, page 4](#)

## 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.



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**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.

**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**

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

	Command or Action	Purpose
Step 4	<pre>debug x25 vc number [events   all] [dump]</pre> <p><b>Example:</b> Router# debug x25 vc 1 events</p>	Displays information about traffic for all virtual circuits that use a given number. <ul style="list-style-type: none"> <li>Use the <b>dump</b> keyword to display the contents, including user data, of X.25 packets.</li> </ul>
Step 5	<pre>debug x25 xot [remote ip-address [port number]] [local ip-address [port number]] [events   all] [dump]</pre> <p><b>Example:</b> Router# debug x25 xot remote 10.0.155.71 port 1998</p>	Displays information about traffic to or from a specific X.25 over TCP (XOT) host. <ul style="list-style-type: none"> <li>Use the <b>dump</b> keyword to display the contents, including user data, of X.25 packets.</li> </ul>

## Additional References

The following sections provide references related to X.25.

## 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
ITU-T 1993 Recommendation X.25	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.	<a href="http://www.cisco.com/public/support/tac/home.shtml">http://www.cisco.com/public/support/tac/home.shtml</a>

# Command Reference

The following commands are introduced or modified in the feature or features documented in this module. For information about these commands, see the *Cisco IOS Wide-Area Networking Command Reference* at [http://www.cisco.com/en/US/docs/ios/wan/command/reference/wan\\_book.html](http://www.cisco.com/en/US/docs/ios/wan/command/reference/wan_book.html). For information about all Cisco IOS commands, go to the Command Lookup Tool at <http://tools.cisco.com/Support/CLILookup> or to the *Cisco IOS Master Commands List*.

- **debug x25**
- **debug x25 interface**
- **debug x25 vc**

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