

Broadband IPv6 Counter Support at LNS

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Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and 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.

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 Broadband IPv6 Counter Support at LNS

Broadband IPv6 Counter Support at LNS

This feature provides support for broadband PPP IPv6 sessions at the layer 2 tunneling protocol (L2TP) network server (LNS). The sessions are forwarded by L2TP access concentrator (LAC) using layer 2 tunneling protocol L2TP over IPv6.

This feature is enabled automatically when the user configures LNS and enables IPv6.

How to Verify Broadband IPv6 Counter Support at LNS

Verifying Broadband IPv6 Counter Support at the LNS

This feature is enabled automatically when the user configures LNS and enables IPv6. To verify information about this feature, you can use any or all of the following optional commands as needed.

SUMMARY STEPS

- 1. enable
- 2. show l2tp session [all | packets [ipv6] | sequence | state | [brief | circuit | interworking] [hostname]] [ip-addr ip-addr[vcid vcid] | tunnel {id local-tunnel-id local-session-id | remote-name remote-tunnel-name | local-tunnel-name} | username | vcid vcid]
- 3. show l2tp tunnel [all | packets [ipv6] | state | summary | transport] [id local-tunnel-id | local-name local-tunnel-name remote-tunnel-name | remote-name remote-tunnel-name local-tunnel-name]
- **4.** show l2tun session [l2tp | pptp] [all [filter] | brief [filter] [hostname] | circuit [filter] [hostname] | interworking [filter] [hostname] | packets ipv6] [filter] | sequence [filter] | state [filter]]
- 5. show vpdn session [l2f | l2tp | pptp] [all | packets [ipv6] | sequence | state [filter]]
- 6. show vpdn tunnel [l2f | l2tp | pptp] [all [filter] | packets ipv6] [filter] | state [filter] | summary [filter] | transport[filter]]

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	• Enter your password if prompted.
	Router> enable	
Step 2	show l2tp session [all packets [ipv6] sequence state [brief circuit interworking] [hostname]] [ip-addr ip-addr[vcid vcid] tunnel {id local-tunnel-id local-session-id remote-name remote-tunnel-name local-tunnel-name} username username vcid vcid] Example: Router# show 12tp session packets ipv6	Displays information about L2TP sessions.
Step 3	show l2tp tunnel [all packets [ipv6] state summary transport] [id local-tunnel-id local-name local-tunnel-name remote-tunnel-name remote-name remote-tunnel-name] Example:	Displays details about L2TP tunnels.
	Router# show 12tp tunnel packets ipv6	

	Command or Action	Purpose
Step 4	show l2tun session [l2tp pptp] [all [filter] brief [filter] [hostname] circuit [filter] [hostname] interworking [filter] [hostname] packets ipv6] [filter] sequence [filter] state [filter]]	Displays the current state of Layer 2 sessions and protocol information about L2TP control channels.
	Example:	
	Router# show 12tun session packets ipv6	
Step 5	show vpdn session [l2f l2tp pptp] [all packets [ipv6] sequence state [filter]]	Displays session information about active Layer 2 sessions for a virtual private dialup network (VPDN).
	Example:	
	Router# show vpdn session packets ipv6	
Step 6	show vpdn tunnel [l2f l2tp pptp] [all [filter] packets ipv6] [filter] state [filter] summary [filter] transport[filter]]	Displays information about active Layer 2 tunnels for a VPDN.
	Example:	
	Router# show vpdn tunnel packets ipv6	

Configuration Examples for Broadband IPv6 Counter Support at LNS

Examples: Verifying Broadband IPv6 Counter Support at the LNS

Example: show I2tp session Command

The **show l2tp session** command used with the **packets and ipv6**keywords displays information about IPv6 packets and byte counts in an L2TP session.

Router# show 12tp session packets ipv6

L2TP Session Information Total tunnels 1 sessions 1

LocID	RemID	TunID	Pkts-In	Pkts-Out	Bytes-In	Bytes-Out
16791	53352	27723	30301740	30301742	20159754280	20523375360

Example: show I2tp tunnel Command

The **show l2tp tunnel** command used with the **packets** and **ipv6** keywords displays information about IPv6 packet statistics and byte counts in L2TP tunnels.

Router# show 12tp tunnel packets ipv6 L2TP Tunnel Information Total tunnels 1 sessions 1 LocTunID Pkts-In Pkts-Out Bytes-In Bytes-Out 27723 63060379 63060383 39400320490 40157045438

Example: show I2tun session Command

The **show l2tun session** command used with the **packets** and **ipv6**keywords displays information about IPv6 packet statistics and byte counts in an L2TUN session.

Router# show 12tun session packets ipv6 L2TP Session Information Total tunnels 1 sessions 1 LocID RemID TunID Pkts-In Pkts-Out Bytes-In Bytes-Out 16791 53352 27723 31120707 31120708 21285014938 21658462236

Example: show vpdn session Command

The **show vpdn session** command used with the **l2tp**, **packets**, and **ipv6**keywords displays session information about IPv6 packet statistics and byte counts in an active layer 2 session for a VPDN.

Router#	show vpdn s	ession 12tp	packets ipv	5		
L2TP Se	ssion Inform	ation Total	tunnels 1 se	essions 1		
LocID	RemID	TunID	Pkts-In	Pkts-Out	Bytes-In	Bytes-Out
16791	53352	27723	35215536	35215538	22616342688	23038929320

Example: show vpdn tunnel Command

The **show vpdn tunnel**command used with the **l2tp**, **packets**, and **ipv6**keywords displays session information about IPv6 packet statistics and byte counts in an active layer 2 tunnel for a VPDN.

```
Device# show vpdn tunnel 12tp packets ipv6

L2TP Tunnel Information Total tunnels 1 sessions 1

LocTunID Pkts-In Pkts-Out Bytes-In Bytes-Out

27723 61422447 61422451 37149801922 37886871686
```

Additional References

Related Documents

Related Topic	Document Title
IPv6 addressing and connectivity	IPv6 Configuration Guide
Cisco IOS commands	Cisco IOS Master Commands List, All Releases

Related Topic	Document Title
IPv6 commands	Cisco IOS IPv6 Command Reference
Cisco IOS IPv6 features	Cisco_IOS_IPv6_Feature_Mapping

Standards and RFCs

Standard/RFC	Title
RFCs for IPv6	

MIBs

MIB	MIBs Link
	To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:
	http://www.cisco.com/go/mibs

Technical Assistance

Description	Link
The Cisco Support and Documentation website provides online resources to download documentation, software, and tools. Use these resources to install and configure the software and to troubleshoot and resolve technical issues with Cisco products and technologies. Access to most tools on the Cisco Support and Documentation website requires a Cisco.com user ID and password.	

Feature Information for Broadband IPv6 Counter Support at LNS

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 Broadband IPv6 Counter Support at LNS

Feature Name	Releases	Feature Information
Broadband IPv6 Counter Support at LNS	Cisco IOS XE Release 2.6	This feature provides support for broadband PPP IPv6 sessions at the L2TP LNS. The sessions are forwarded by LAC using layer 2 tunneling protocol L2TP over IPv4. The following commands were introduced or modified: show l2tp session, show l2tp tunnel, show l2tun session, show vpdn session, show vpdn tunnel.