

Chapter-50

BPDU-Tunnel



Contents

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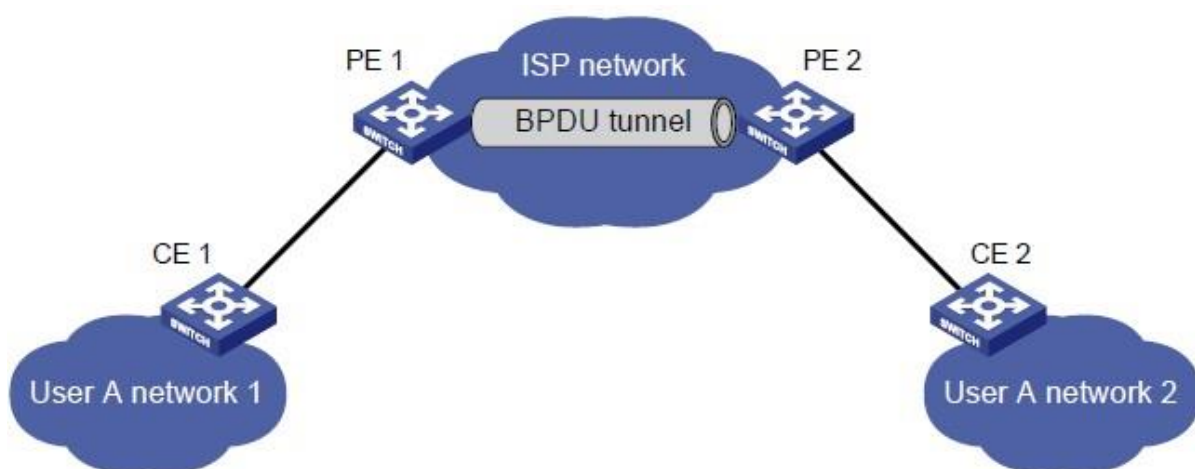
50.1 BPDU-Tunnel Overview	3
50.2 Configure BPDU-Tunnel	4
50.2.1 BPDU-tunnel Configuration List	4
50.2.2 Configure BPDU-Tunnel Packet	4
50.2.3 Configure BPDU-Tunnel Destination MAC	4
50.2.4 Displays and Maintain BPDU-Tunnel Configuration.....	5

Chapter 50 BPDU-Tunnel

50.1 BPDU-Tunnel Overview

L2TP (Layer 2 Tunneling Protocol) is a Layer 2 tunnelling technology, L2TP enables Layer 2 protocol packets from geographically dispersed customer networks to be transparently

transmitted over specific tunnels across a service provider network.



With L2TP, Layer 2 protocol packets from customer networks can be transparently transmitted in the service provider network:

1. After receiving a Layer 2 protocol packet from User A network 1, PE 1 in the service provider network encapsulates the packet, replaces its destination MAC address with a specific multicast MAC address, and then forwards the packet in the service provider network.
2. The encapsulated Layer 2 protocol packet (called bridge protocol data unit, BPDU for short) is forwarded to PE 2 at the other end of the service provider network, which de-encapsulates the packet, restores the original destination MAC address of the packet, and then sends the packet to User A network 2.

50.2 Configure BPDU-Tunnel

50.2.1 BPDU-tunnel Configuration List

Configuration Task	Description	Detailed Configuration
Configure BPDU-Tunnel Packet	Required	50.2.2
Configure BPDU-TunnelDestination MAC	Optional	50.2.3
Displays and Maintain BPDU-Tunnelconfiguration	Optional	50.2.4

50.2.2 Configure BPDU-Tunnel Packet

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter interface configuration mode	interface ethernet <i>interface-num</i>	
Configure the L2-tunnel packet	bpdu-tunnel [cdp lacp pagp stp udld vtp]	

50.2.3 Configure BPDU-Tunnel Destination MAC

By default, L2TP destination mac is 01:00:0c:cd:cd:d0

Operation	Command	Remarks
Enter global configuration mode	system-view	

Configure the rate for up to cpu	bpdu-tunnel dmac <i>mac-address</i>	
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50.2.4 Displays and Maintain BPDU-Tunnel Configuration

After finishing above configuration, user can check the configurations by command below.

Operation	Command	Remarks
Display L2TP configuration	display bpdu-tunnel interface [ethernet <i>interface-num</i>]	