

# Chapter 50: BPDU-Tunnel



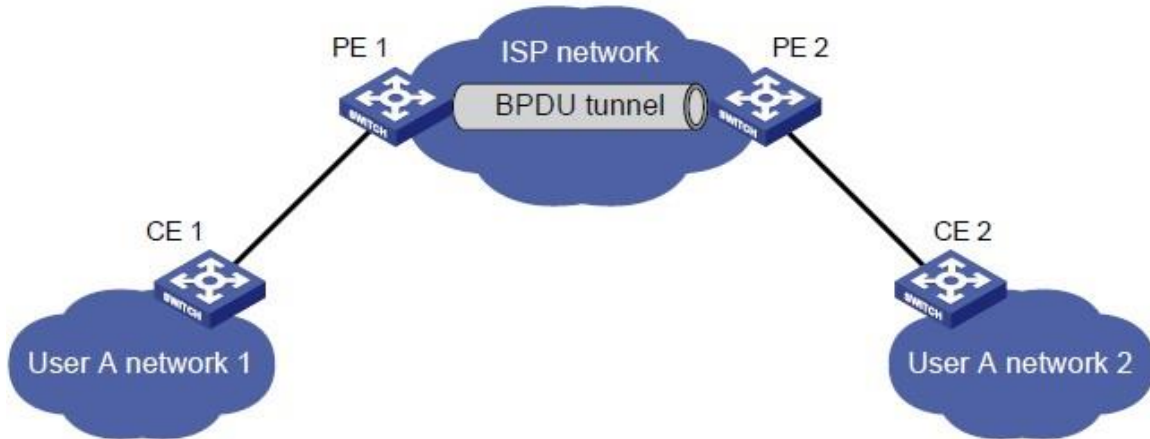
# Table of Contents

<b>Chapter 50 BPDU-Tunnel</b> .....	2
50.1 BPDU-Tunnel Overview .....	2
50.2 Configure BPDU-Tunnel.....	2
50.2.1 BPDU-Tunnel Configuration List.....	2
50.2.2 Configure BPDU-Tunnel Packet .....	2
50.2.3 Configure BPDU-Tunnel Destination MAC .....	3
50.2.4 Display and Maintain BPDU-Tunnel Configuration.....	3

# Chapter 50 BPDU-Tunnel

## 50.1 BPDU-Tunnel Overview

L2TP (Layer 2 Tunneling Protocol) is a Layer 2 tunneling 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-Tunnel Destination MAC	Optional	50.2.3
Displays and Maintain BPDU-Tunnel configuration	Optional	50.2.4

### 50.2.2 Configure BPDU-Tunnel Packet

Operation	Command	Remarks
Enter global configuration mode	<b>system-view</b>	
Enter interface configuration mode	<b>interface ethernet</b> <i>interface-num</i>	

Configure the L2-tunnel packet	<b>bpdu-tunnel [ cdp   lacp   pagp   stp   udid   vtp ]</b>	
--------------------------------	---	--

### 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	<b>system-view</b>	
Configure the rate for up to cpu	<b>bpdu-tunnel dmac <i>mac-address</i></b>	

### 50.2.4 Display and Maintain BPDU-Tunnel Configuration

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

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