

# **FSOS**

## **L2TP Configuration**

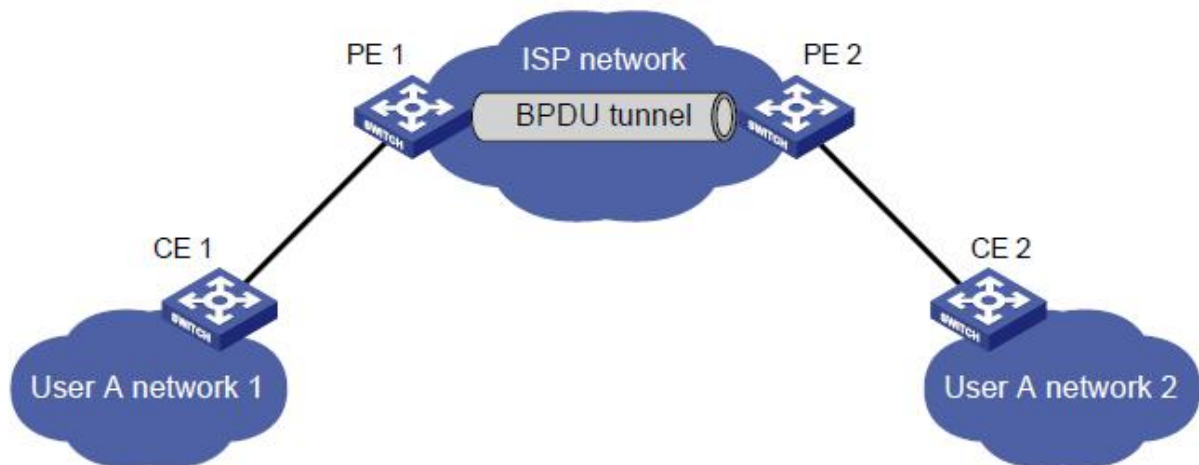
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## Chapter 1 L2TP Configuration

### 1.1 L2TP 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.



Pictuer 1-1. L2TP application scenario

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.

### 1.2 L2TP Configuration

#### 1.2.1 Configure L2-Tunnel Packet

Table 1-1 Configure the L2-tunnel packet

Operation	Command	Remarks
Enter global configuration mode	<b>configure terminal</b>	-

Enter interface configuration mode	<b>interface ethernet</b> <i>interface-num</i>	-
Configure the L2-tunnel packet	<b>l2-tunnel [cdp   lcp   pagp   stp   udld   vtp]</b>	Required

### 1.2.2 Advanced L2TP Configuration

By default, L2TP will be up to CPU. This command will configure the rate for up to cpu.

**Table 1-2** Advanced L2TP configuration

Operation	Command	Remarks
Enter global configuration mode	<b>configure terminal</b>	-
Configure the rate for up to cpu	<b>l2-tunnel drop-threshold [ cdp   lcp   pagp   stp   udld   vtp] rate</b>	Optional

### 1.2.3 L2TP Monitor and Maintenance

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

**Table 1-3** L2TP monitor and maintenance

Operation	Command	Remarks
Show L2TP configuration	<b>show l2-tunnel interface [ethernet interface-num]</b>	On any configuration mode
Show the rate for up to cpu	<b>show l2-tunnel drop-threshold</b>	On any configuration mode