



# Designing and Implementing IP/MPLS-Based Ethernet Layer 2 VPN Services: An Advanced Guide for VPLS and VLL

*Zhuo Xu*

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## **Designing and Implementing IP/MPLS-Based Ethernet Layer 2 VPN Services: An Advanced Guide for VPLS and VLL** Zhuo Xu

A guide to designing and implementing VPLS services over an IP/MPLS switched service provider backbone

Today's communication providers are looking for convenience, simplicity, and flexible bandwidth across wide area networks-but with the quality of service and control that is critical for business networking applications like video, voice and data. Carrier Ethernet VPN services based on VPLS makes this a reality. Virtual Private LAN Service (VPLS) is a pseudowire (PW) based, multipoint-to-multipoint layer 2 Ethernet VPN service provided by services providers. By deploying a VPLS service to customers, the operator can focus on providing high throughput, highly available Ethernet bridging services and leave the layer 3 routing decision up to the customer.

Virtual Private LAN Services (VPLS) is quickly becoming the number one choice for many enterprises and service providers to deploy data communication networks. Alcatel-Lucent VPLS solution enables service providers to offer enterprise customers the operational cost benefits of Ethernet with the predictable QoS characteristics of MPLS.

Items Covered:

Building Converged Service Networks with IP/MPLS VPN Technology

IP/MPLS VPN Multi-Service Network Overview

Using MPLS Label Switched Paths as Service Transport Tunnels

Routing Protocol Traffic Engineering and CSPF

RSVP-TE Protocol

MPLS Resiliency -- Secondary LSP

MPLS Resiliency -- RSVP-TE LSP Fast Reroute

Label Distribution Protocol

IP/MPLS VPN Service Routing Architecture

Virtual Leased Line Services

Virtual Private LAN Service

Hierarchical VPLS

High Availability in an IP/MPLS VPN Network

VLL Service Resiliency

VPLS Service Resiliency

VPLS BGP Auto-Discovery

PBB-VPLS

OAM in a VPLS Service Network

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