



Virtual Private LAN Services

The Virtual Private LAN Services (VPLS) feature allows Multiprotocol Label Switching (MPLS) networks to provide multipoint Ethernet LAN services, also known as Transparent LAN Services (TLS). All customer sites in a VPLS appear to be on the same LAN, even though those sites might be in different geographic locations. Cisco IOS Release 12.2(33)SXH introduces VPLS support on the Cisco 6500 series routers.

Configuration Information

Configuration information is included in the “Virtual Private LAN Services on the Optical Services Modules” module of the *Optical Services Modules Software Configuration Note, 12.2SR, Cisco 7600 Series Routers* at the following URL:

<http://www.cisco.com/univercd/cc/td/doc/product/core/cis7600/cfgnotes/optical/122sr/mpls.htm#wp1423607>

The following sections provide information about this feature:

- VPLS Overview
- Supported Features
- VPLS Services
- Benefits of VPLS
- Configuring VPLS
- Basic VPLS Configuration
- Full-Mesh Configuration Example
- H-VPLS with MPLS Edge Configuration Example
- Configuring Dot1q Transparency for EoMPLS



CCVP, the Cisco logo, and Welcome to the Human Network are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networkers, Networking Academy, Network Registrar, PIX, ProConnect, ScriptShare, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0711R)

Any Internet Protocol (IP) addresses used in this document are not intended to be actual addresses. Any examples, command display output, and figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses in illustrative content is unintentional and coincidental.

© 2007 Cisco Systems, Inc. All rights reserved.