

Benefits

- **Privacy and Control**—Layer 2 security gives you total control over packet addressing and routing
- **Performance**—optimizes and accelerates your applications using dedicated connections with robust Classes of Service
- **Flexibility**—carries IP and non IP-based traffic over the same network, provides diversity, and easily accommodates your needs for additional bandwidth by location or application
- **Simplicity and Savings**—with native Ethernet throughout the network that's less expensive for you to administer and maintain

Ethernet VPLS

Extend your Ethernet LAN across a Wide Area Network that's delivered over the award-winning, advanced XO nationwide network.

Ethernet VPLS combines the privacy of Private Line services, the performance and resiliency of MPLS IP-VPN, and the affordability, simplicity, and flexibility of Ethernet into a single solution. The Layer 2 network service has the same familiarity as the local Ethernet network you use every day and can carry all of your IP and non-IP traffic. You maintain complete control over network routing and management and benefit from the highest levels of network performance, cost efficiency and scalability. XO Communications delivers Ethernet VPLS to more locations nationwide than other service providers, using the award-winning XO nationwide network.

Take advantage of the high-speed connectivity, flexibility and affordability of an Ethernet VPLS to:

- Connect data centers or Storage Area Networks, contact centers or media centers
- Support special applications like VoIP or video multicasting with four Class of Service options
- Transport non IP and IP traffic over the same network
- Maintain separate networking domains as if they were on the same LAN regardless of their locations
- Interconnect with other networking services such as MPLS-based VPNs or Internet Access.

Broad Nationwide Coverage

With one of the broadest Ethernet footprints in the United States and multiple types of access, XO Communications can deliver Ethernet VPLS to more of your locations than many other service providers:

- Extensive Nationwide Inter-City and Metro Fiber Networks covering more than 85 major metropolitan markets
- Industry-Leading Nationwide Deployment of Ethernet over Copper Technology in 85 major metropolitan markets to reach locations

served by last mile copper

- Extensive Nationwide Broadband Wireless Access Capabilities covering 85 metro markets to serve locations without direct fiber access

Multiple Bandwidth and Access Options

Select from multiple access types:

- Ethernet over Fiber from 10 Mbps to 1 Gbps
- Ethernet over Copper access from 3 Mbps through 20 Mbps
- Broadband Wireless access in speeds ranging from 10 Mbps to 1 Gbps
- Scalable bandwidth options allow you to increase bandwidth as needed

Service Types

XO Communications can configure your Ethernet VPLS architecture in any number of ways to extend your native Ethernet LAN across a metro or wide geographic area:

- Point-to-point
- Point-to-multipoint
- Multipoint-to-multipoint (any-to-any/fully meshed)

Robust Classes of Service

With XO Communications, you benefit from all four Classes of Service:

- Real Time
- Critical
- Priority
- Standard

You get access to all Classes of Service for one flat rate, and each class can access up to the full amount of bandwidth available when necessary, in order of priority.

Bundle Services in A Single Network

Ethernet VPLS allows you to combine multiple services across a single Ethernet circuit for better cost efficiency and network optimization:

- Use single or multiple Ethernet VPNs in one network to distinguish different domains or separate types of traffic
- Combine with MPLS IP-VPN and Dedicated Internet Access for a complete network solution with all Class of Service Options from a single provider

Industry Standards and Protocols Supported

Ethernet VPLS has the advantage of being completely protocol-agnostic:

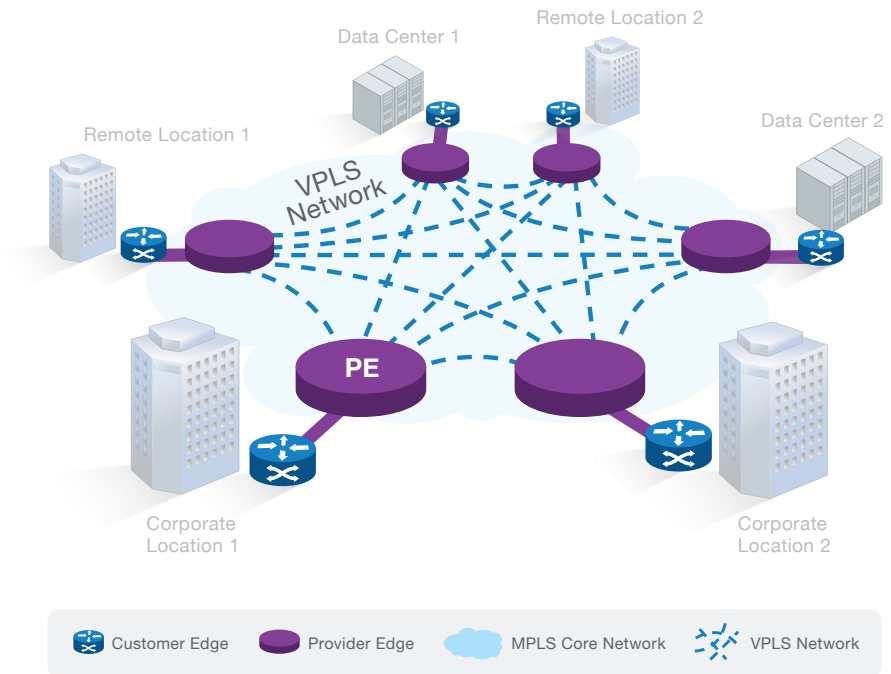
- Carries both IP and non-IP traffic
- Provides VLAN transparency
- Enables native Ethernet multicasting

The solution also supports many industry standards:

- Metro Ethernet Forum E-LAN design
- IEEE 802.1ag Ethernet Operations, Administration and Management (OAM) standards
- Uses RFC 4761 and 4762 protocols



XO Ethernet VPLS



Equipment Options

For Ethernet VPLS, you may choose from several equipment options:

- Use your own Customer Premise Equipment
- Lease or Buy CPE from XO

Gain Simplicity and Savings

Ultimately, Ethernet VPLS provides you with a high-speed, extremely reliable and secure network with all the cost effectiveness and flexibility of an easy-to-manage Ethernet environment:

- Costs less per megabit than other technologies
- Decreases your network management costs because it's less expensive to administer, operate and manage
- Lowers Your Total Cost of Ownership—since there's no need for special routing protocols, conversions equipment or IT staff training
- Extends your Local Area Network environment to a Metro or Wide Area Network—and allows your sensitive, critical applications to flow seamlessly across the entire network.

About XO Communications

XO Communications is a leading nationwide provider of advanced communications services and solutions for businesses, enterprises, government, carriers and service providers.

XO customers include more than half of the Fortune 500, in addition to leading cable companies, carriers, content providers and mobile network operators. Utilizing its unique combination of high-capacity nationwide and metro networks and broadband wireless capabilities, XO offers customers a broad range of managed voice, data and IP services with proven performance, scalability and value in more than 85 metropolitan markets across the United States.



For more information, call your XO sales representative, visit www.xo.com or call: **866.349.0134**