

# Ethernet

Everywhere You Need It

LS Networks is proud to serve both rural and metro customers with the largest Ethernet network in the Pacific Northwest, offering dense coverage throughout Oregon, Washington and Northern California.

Our goal is to provide the highest quality, fastest, most reliable communications services to our customers in the Pacific Northwest. Our success is measured by your success.

## LS Networks Ethernet Features

- **High-performance Layer-2 wide area network (WAN)** configurations provide site-to-site access, cloud applications, data center consolidation, video conferencing and disaster recovery, ensuring your network doesn't interfere with your business operations.
- **Simplified network management** enables immediate fault detection and monitoring to ensure your network always performs to your needs.
- **A single consistent protocol with a variety of access types**, including Ethernet over fiber, Ethernet over copper and Ethernet over TDM, providing consistent network availability to all your business locations.

- **Identical Wide Area Network (WAN) and Local Area Network (LAN) technology** allows you to extend your LAN directly into your WAN, or self-manage your own IP network, reducing complexity and increasing network reliability for your business.
- **Flexible high bandwidth** enables access to smaller bandwidth increments ranging from 1 Mbps to 100 Gbps, so you can scale and grow your network to meet your application needs.

## Business Benefits

- **Reliable and secure performance:** Ethernet services are provisioned over our own fiber backbone and MPLS core network, and are supported by SLAs that cover the entire service from your equipment hand-off through our network, guaranteeing the highest standards of reliability.
- **Better uptime for business applications:** Quality of Service (QoS) technology prioritizes Metro and WAN traffic into queues, maximizing network efficiency during times of network congestion.
- **Metro Ethernet Forum (MEF) compliance:** Scalable and reliable business-class Ethernet performs to rigid service level specifications and MEF industry standards.
- **Custom Reporting & Monitoring Tools**

## About Ethernet

Ethernet is a widely utilized local area network (LAN) technology used for linking multiple devices in a limited, closed network. This network can contain as few as three devices or as many as several thousand. The same application and data segregation used in your LAN is now available in your WAN infrastructure.

Over the years, Ethernet standards have steadily evolved to allow new types of media transport and higher transmission speeds over longer distances. Today, Ethernet is crucial to most IP, business applications and Wi-Fi deployments. LS Networks' Ethernet networking services provide the security, reliability and speed you depend on for your success.

LS Networks provides multiple standard configurations, allowing your network to operate as your business demands, not limited by the constraints of your network service provider.



### E-Line Service Type

**E-Line Service Type (Point-to-Point EVC)** replaces your traditional private line service and provides flexible, dedicated bandwidth at a lower cost between two points, supporting a single Ethernet connection.

### E-LAN Service Type

**E-LAN Service Type (Multipoint to Multipoint EVC)** supports multiple Ethernet connections and aggregated hub locations, giving you true flexibility and routing options. Featuring easy and cost-effective upgrades, this service allows you to easily configure your network and bandwidth to meet the day-to-day needs of your business. With LS Networks, expanding your WAN can happen in hours, not weeks.



### E-Tree Type

**E-Tree Service Type (Rooted Multipoint EVC)** allows for a fully meshed network, allowing your business to share data between all branch locations, without forcing you to route all traffic through a single location. This frees up bandwidth at your primary location, and reduces the risk of a single connection failure bringing down your whole system.