

# MPLS

## Prioritize service and boost performance while cutting costs.

MPLS is a multi-layer Internet protocol that is run through the cloud. It creates a direct tunnel between various customer business locations through cloud based servers, which allows for the creation of a virtual network. MPLS creates a one-to-many connection which allows for signals to be directly transmitted between multiple locations, all while being able to control the priority of packets being sent. MPLS provides substantial advantages in flexibility, scalability, and operations cost in comparison to legacy technologies.

## Features

- Private circuits
- Connection-based routing
- Separate classes of service (CoS)
- Fully meshed
- Scalable architecture
- Low total cost of ownership (TCO)
- Extensive access choice with cross-carrier MPLS port convergence
- Built-in security gateways
- Optional data encryption
- IPsec or SSL VPN remote access
- Automatic back-up
- End-to-end service level agreements (SLAs)
- Multi-cast capability
- Multiple CPE options
- Flexibility to connect off-net sites
- Up to 6 classes of service for application on prioritization for improved quality
- VPLS integration (Internet circuits using VPN into MPLS cloud)
- MPLS over broadband

## Key Benefits

### Security

- Completely private network
- Never touches the Internet
- Full meshing without additional permanent virtual circuits

### Flexibility

- Any-to-any communication
- Easily add/remove sites and equipment
- IP addressing freedom
- Ready for future applications

### Scalability

- Range of speeds are available
- Use any access technology
- Small to very large number of sites
- Higher bandwidth connections

### Intelligence

- Service level agreements
- QoS and CoS to prioritize and protect mission-critical and real-time applications
- Streamlined, newly engineered network
- Relieves cost and improves operations efficiency