

# Wavelength (WDM)

Optimizing your network

Fiber-optic technology is able to carry more data further than any other data transmission technology, and Wavelength-Division Multiplexing (WDM) maximizes its carrying ability. WDM uses multiple wavelengths — or colors of light — on the same fiber to increase the quantity of messages that can be transmitted at one time. With Wavelength-Division Multiplexing, different colors carry data over the same channels, causing no interference with one another when they cross.

## Features

- ✓ Unique network for route diversity compared to other carriers
- ✓ Wide service geography enables “add drops” throughout the Pacific Northwest
- ✓ Fewer regeneration points, meaning more reliable service at a lower cost
- ✓ Scale at both 10 Gbps and 100 Gbps waves
- ✓ Spectrum options for scalable growth
- ✓ Variety of framing types available
- ✓ Compatible with OTU2, 10-G LAN, 10-G WAN

## Service Details

- ✓ 10G, 100G or Spectrum
- ✓ Strong connectivity between Tier 1-5 city markets
- ✓ Targeting major traffic aggregation sites for CAPEX investments
- ✓ Diversity and sub-50 ms protection switching available
- ✓ Option to specify A-Z path, supporting diversity even for routes procured from a different carrier.
- ✓ Flexible network topologies, single or multiple waves
- ✓ Flexibility to specify protocols and security measures
- ✓ LAN PHY and WAN PHY options available
- ✓ Full SLA guarantees and single point of accountability





With LS Networks' Wavelength technology, you can easily and inexpensively grow your network, increasing bandwidth at cost points that were once unimaginable.

LS Networks' Wavelength service is the go-to for carriers looking to maximize optical data transport. LS Networks is proud to serve Oregon and Washington with our ever-expanding line of communications services.

Our goal is to help provide fast, reliable, secure fiber broadband services to everyone from Christmas Valley and La Grande to Beaverton. Our success is measured by your success.

## LS Networks Wavelength Division Multiplexing Network

We offer wavelength to telecommunications carriers needing reliable fiber to complete their customer networks. In certain areas we can customize the connection for multiple redundant paths. This option combined with our spectrum range enables nearly any type of traffic. Optimize our fiber network through our wavelength WDM capacity — connecting between our data centers and our mesh fiber network to reach remote locations throughout the Pacific Northwest.

