

# Lumen® Wavelength Services

Up to 400G available. More available bandwidth. Same proven network.

With mobility, the Internet of things (IoT) and cloud computing driving digital transformation, enterprise and government IT organizations should consider evolving their networks.

Next generation network architectures must be flexible and scalable to address not only today's requirements but, evolving dynamic environments — connecting employees to information, applications to each other, businesses to suppliers and data, and machines to machines.

To keep up with the pace of change, IT organizations should propel business growth and innovation by delivering high-performance applications globally — with improved reliability, scalability, and efficiencies.

## Scalability

Right-size and scale efficiently with Lumen's full range of wavelength speeds, including 400 Gbps.

## Application performance

Deliver fast, high-availability services and applications leveraging low latency routes and competitive SLAs based on network redundancy with diverse gateways and route options.

## Consultative design

Smooth network optimizations, migrations and upgrades with custom routing and design transparency developed by Lumen Solutions Architecture.

## Operational efficiency and reduced costs

Resiliency to handle more bandwidth with fewer network elements utilizing a custom-designed network solution that's more scalable, operational, and economical than legacy solutions.



“ Digital economy leaders need 100G and 400G wavelength connectivity to help bolster the performance of the underlying network supporting their digital platform journeys. Lumen's portfolio of wavelength solutions continues to lead the industry in providing innovative, adaptive networks with the necessary global reach, route diversity, and low latency performance needed to enable the seamless distribution of applications, Edge to Core.”

— Ian Redpath

Practice Leader Transport Networks, Omdia

## Common use cases

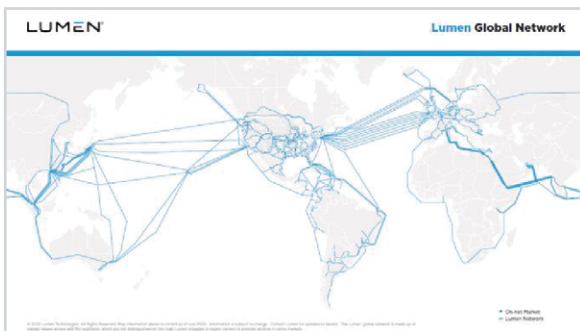
- Data Centers mirroring for business continuity & disaster recovery
- Large scale multi-national companies that need rapid access to vast amounts of data to make decisions
- Industries such as banking, media, oil & gas, healthcare & pharma that adopt more effective and nimble data collection strategies

## Features and Specs

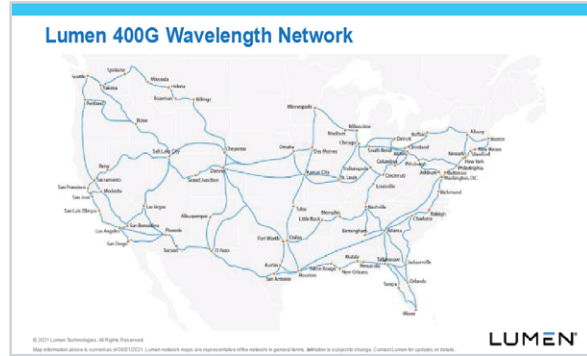
### Lumen Wavelength Services

- Ethernet speeds: 1, 10, 100, 400 Gbps
- SONET/SDH speeds: 2.5, 10 Gbps
- OTU speeds: OTU 1, 2, 2e, 3, 4
- FICON and Fiber Channel (metro only): 1, 2, 4, 8, 10 and 16 Gbps SAN
- Protected and unprotected solutions
- Available low-latency routes and latency SLAs
- Available custom routing and transparent network design, including private data networks
- Building extensions available for demarcation extension, inside wiring
- Provide bandwidth, transparency and control of your applications to enhance the customer experience
  - Topology Viewer
  - Proactive Notifications

## Lumen global network footprint



## Lumen 400G Wavelength network



Connect your employees, partners, and customers across the globe:

- 60+ Edge Compute Nodes underway
- 3.5 million miles of high capacity / ultra-low loss fiber in North America
- Approximately 170,000 on-net buildings
- Capability to connect customers to network services in more than 110 countries/6,000 cities
- Control of approximately 450,000 fiber route miles with access to more than 76,000 metro fiber and 42,000 subsea route miles



## Why Lumen?

Lumen Wavelengths combines an industry-leading network, using low latency routes, industry-competitive SLA's, network redundancy and a wide range of dynamic bandwidth options for maximum efficiency. Wavelengths provide a highly configurable and secure network solution on which to run your critical applications.

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