Lumen® Wavelength Services

Up to 400G available. Engineered by the #1 provider of AI-ready network infrastructure.

With AI, the Internet of things (IoT) and cloud computing driving digital transformation, enterprise and government IT organizations need to evolve their networks.

Next generation network architectures must be flexible and scalable to address not only today's requirements but also increasing AI use and 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
With up to 400G connectivity speeds for Wavelength services and expansive route diversity, Lumen is the trusted network for AI.

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

LUMEN®
TECHNOLOGIES

Features and Specs

Lumen Wavelength Services

- Ethernet speeds: 10, 100, 400 Gbps
- OTU speeds: OTU 2, 2e, 4
- 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
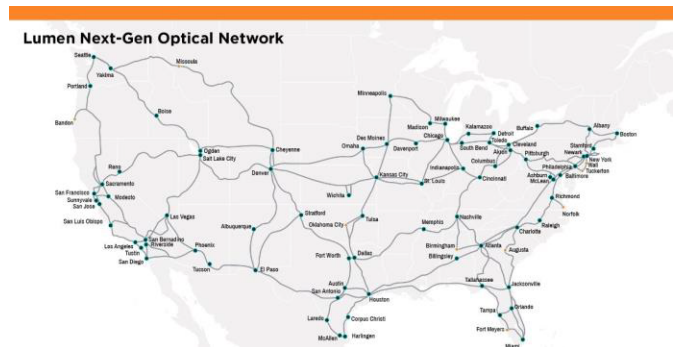 - Topology Viewer
  - Proactive Notifications
  - Laser

Largest Ultra-Low-Loss Intercity Fiber Network in North America

400G and extensive route diversity

Lumen Next-Gen Optical Network

Lumen 400G Wavelength Network

Connect your employees, partners, and customers

- 78,300 400G enabled route miles
- 6M+ ULL fiber miles deployed
- 125 North America optical cloud on ramps
- 2200+ on-net data centers
- Approximately 170,000 on-net buildings
- 400+ pops pushing further to the metro edge with 10-20 data centers per market
- SDN enabled – allowing for automated capacity provisioning

Innovative Leader in Wavelengths

FROST & SULLIVAN

FROST RADAR LEADER

LUMEN®

FROST RADAR™: Wavelength Services in North America, 2024

Ranked #1 in Wavelength service by the 2024 Frost Radar™ - **Read the report**

VERTICAL SYSTEMS GROUP

LEADERBOARD

MID-YEAR **2024** U.S. Wavelength Services

RANK	WAVELENGTH PROVIDERS
1	Lumen
2	Zayo
3	Verizon
4	AT&T
5	Crown Castle

Ranked the #1 leader in Waves three consecutive times by VSG

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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