

# Lumen® Solutions for Data Center Operators and Tenants

Reliable and flexible networking solutions for future-ready ecosystems

Modern data centers sit at the center of an always-on, AI-driven digital economy, where performance, scale, and speed directly impact growth. As tenant demands expand across cloud, AI, and high-capacity workloads, connectivity must be dynamic and resilient for future-ready ecosystems. Lumen® Connectivity and Infrastructure Services help data center operators accelerate onboarding, streamline operations, and power what's next with a future-ready network foundation.

## Build a high-performance, secure backbone

Deliver SLA-backed, high-capacity connectivity across metro, long-haul and edge locations with a deeply diverse fiber backbone designed for <5ms or less latency that covers 97% of U.S. enterprise demand as well as predictable throughput for mission-critical workloads. Pre-engineered fiber paths accelerate tenant onboarding while delivering the reliability required for today's most demanding workloads.

## Move fast and scale without overprovisioning

Bring tenants online quickly to accelerate time to revenue with pre-lit, on-demand capacity that scales bandwidth in minutes with no long-term contracts in 10M+ locations. Pre lit infrastructure and a 20-day SLA for 100G/400G routes keep growth fast, predictable and capital efficient.

## Streamline operations, gain visibility and control

Simplify operations with centralized orchestration and API-driven provisioning that standardizes connectivity across facilities to reduce manual work and cost. With Lumen Connect, 310+ automated workflows and direct access to 2,200+ data centers and 125+ cloud on-ramps are designed to accelerate provisioning, governance and ecosystem value.

## Operate seamlessly across clouds

Deliver seamless, predictable access to major clouds while eliminating multi-carrier and cloud-network complexity—protecting interconnection revenue and tenant experience. A diverse, 400G-ready backbone with automated cloud on-ramps grows ecosystem density, boosts high-margin cross-connects, and maximizes revenue per MW for multi-cloud and AI workloads.

## AI-ready, edge-optimized facilities for what's next

Power next-gen workloads with an AI-ready, programmable fabric that scales for high-density compute and regional inference. An intelligent, on-demand platform enables DCOs to evolve with tenant needs while introducing differentiated, high-value interconnect services.



“Lumen’s future-ready fiber is the connective fabric we need to provide best-in-class connectivity and drive our mission of sustainable data centers for the greater good.”

### – Trenton Thornock

Founder and CEO

Prometheus Hyperscale

## Common use cases

- Support dynamic tenant demand without overprovisioning or operational friction
- Quickly build out new data centers with pre-lit, high-capacity infrastructure and on-demand connectivity
- Expand into edge and regional markets quickly
- Monetize interconnection and premium services with a network designed to help increase ecosystem density, tenant stickiness, and high-margin revenue

## Solutions - Infrastructure

### Lumen® Wavelengths

High-capacity optical transport service that delivers dedicated connectivity across metro and long-haul routes, enabling scalable data center, cloud and AI workloads on the Lumen ultra-low-loss fiber network

### Lumen® Managed Optical Fiber Networks (MOFN)

Direct access to Lumen's owned and controlled fiber infrastructure to extend private optical connectivity across data centers and cloud regions for increased control and performance isolation while reducing operational burden

### Lumen® Dark Fiber

Dedicated, unlit, route-diverse fiber strands across the Lumen network, giving customers full control to light, scale, and manage their own high-capacity connectivity for data center, cloud and AI-driven workloads

## Solutions - Connectivity

### Lumen® On-Demand Services

Flexible, scalable internet and network services with options for pay-as-you-go pricing models and self-service adjustability.

- **Internet On-Demand** to rapidly deploy dedicated internet connectivity across locations
- **IP VPN On-Demand** for multi-site and cloud connectivity using SLA-backed MPLS with on-demand scalability
- **Ethernet On-Demand** to connect point-to-point locations and clouds with private bandwidth up to 400 Gbps

### Lumen® Dedicated Internet Access

High-speed, symmetrical internet that is reserved for your company

### Lumen® IP VPN

Secure, SLA-backed private network service that delivers high-performance, managed routing across customer sites, data centers, and public clouds

### Lumen® Ethernet

High-performance, SLA-backed Layer 2 connectivity service that delivers secure, scalable private bandwidth between locations, data centers, and clouds



The Lumen network offers up to **400 Gbps** transport, **125+ cloud on-ramps** and **2,200+ third-party data centers**.

### Why Lumen?

Lumen delivers secure, high-performance connectivity built on one of the world's most expansive and deeply peered networks. With 30+ years of experience, we simplify complex networking challenges to help connect people, data, and applications across clouds, data centers and locations. Our continued investment in AI-ready infrastructure and metro expansion helps ensure your business is future-ready.

866-352-0291 | [lumen.com](https://lumen.com) | [info@lumen.com](mailto:info@lumen.com)