



Lumen Networking Portfolios:

Seamless Connectivity
for Digital Success

LUMEN®



Why Lumen Networking is the right choice for your business

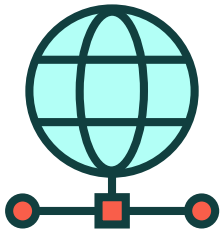
Your network powers your business, so having a robust, flexible infrastructure you can rely on is vital to your success. Lumen Networking Solutions provide the robust and flexible infrastructure you need. Whether it's cloud-like scalability, private networks for artificial intelligence (AI) workloads or hybrid networks, Lumen has you covered.

These comprehensive solutions meet your growing business demands and optimize next-gen app performance for enhanced efficiency and productivity. With low-latency, high-bandwidth and secure connectivity, running applications on a network that scales with your business becomes effortless, enabling you to deliver smooth digital experiences.

Along with performance, security is a top priority for your digital business. The Lumen Network includes award-winning threat intelligence and continuous monitoring and mitigation powered by Black Lotus Labs®. This elite team of threat intelligence experts integrates proactive cybersecurity solutions to automatically detect and block threats, helping to ensure your data is protected.

Explore the Lumen Networking Solutions portfolios

The Lumen Networking Solutions portfolios offer powerful, flexible solutions to meet the diverse needs of your business.



Lumen Core Network Solutions

Modernize and simplify your network with high-speed, secure and reliable connectivity. Enhance operational efficiency, productivity and security while boosting agility. Support new revenue sources, optimize costs and enhance customer service.



Lumen Digital

Offers on-demand flexibility for networking and security to help improve business agility and cost efficiency. Adjust bandwidth immediately to maximize cost savings and meet demands. Ideal for managing fluctuating demand and advanced technological needs like real-time applications or AI.



Private Connectivity Fabric

Provides tailored network solutions for modernizing networks and securely transmitting large data with high-speed connections between data centers and cloud environments. Ideal for data-intensive and AI-driven workloads.



What are solutions portfolios?

Lumen solutions portfolios are comprehensive collections of network and security services designed to match your business needs. Solutions can be selected individually without bundling.

Reliable connectivity plus robust security

[Lumen Core Network Solutions](#) is a portfolio of connectivity solutions dedicated to optimizing next-generation app performance and productivity across internet, cloud and data center networks. These integrated networking solutions support digital capabilities for today's business requirements. Flexible Core Network Solutions help you embark upon a digital transformation strategy while laying the groundwork for further innovation as your needs evolve.

Companies using Lumen Core Network Solutions aim to achieve high-speed, secure and reliable network connectivity. By modernizing your infrastructure with performance-enabling bandwidth, you can power the applications and data necessary to enhance customer and employee engagement, operational efficiency and ROI.

Fast, reliable connectivity coupled with top-notch AI-enabled security across the entire Lumen Core Network Solutions portfolio means you'll get optimum performance, enhanced efficiency and reassurance that your network remains secure. Lumen Core Network Solutions include award-winning threat intelligence and continuous monitoring and mitigation powered by Black Lotus Labs®.

“ **The main impact on our business is that we now have a more cost-effective way to provide the 24/7 connectivity that our customers expect.**”

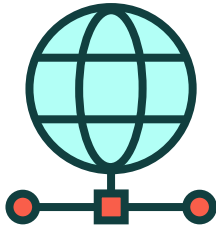
- Mahendra Verma

VP, Sr. Network Engineering Manager
Horizon Bank

Current Lumen customer compensated for their endorsement.



Core Network Solutions highlights



High-performing network

- Award-winning network solutions across an extensive fiber network
- Multiple network speeds and types available, allowing you to flexibly adapt as your business grows
- Lumen® Control Center and Network Visibility Dashboard to help you manage network performance
- Ideal for digital transformation initiatives



Flexible security options

- Designed to help your business effectively adopt and protect cloud-based applications and hybrid networks with high reliability and performance
- Optional security add-ons that integrate directly into your network for simple management and monitoring
- Built on a secure, robust network backbone with AI-enabled threat intelligence backed by Black Lotus Labs

Network and security with on-demand management and cost flexibility

The [Lumen Digital](#) suite of next-generation networking and security solutions allow businesses to deploy and adjust services on demand and pay based on usage. All services are powered by our #1 peered IP network,¹ ultra-low-loss fiber network and high-fidelity threat intelligence, enabling you to select from a suite of world-class solutions that satisfy a wide range of networking needs.

With the advanced flexibility of the Lumen Digital cloud-enabled platform, you can easily scale up network resources when demand increases or when you bring new locations online and scale costs back whenever business needs change. The wide array of solutions provides your business with the flexibility to grow in whichever direction the market dictates.

Did your team uncover an opportunity for your business to utilize AI or real-time applications? Do you need enhanced security for evolving threats? Lumen Digital is prepared with the right services for your networking needs, including **an extensive API for integrating additional technologies.**

Reliable connectivity plus robust security

The high-quality Lumen Network helps ensure fast, reliable connectivity with AI-enabled, compliance-grade security across the entire Lumen Digital portfolio. As networks extend to incorporate public and private clouds, data centers and more, it becomes increasingly important to analyze and manage network performance.

Ever-evolving AI cybersecurity threats emphasize the need to maintain a solid security posture, which requires deep visibility into security health. Lumen Digital enables your technological evolution and provides visibility into network and security data from a single pane of glass, with alert customizations that help your team identify issues quickly.

Adopting a network that provides cost and technological flexibility helps make your business ready for future challenges and developments.



[Lumen Digital] NaaS has the potential to empower BlackStar Group to better serve our live event clients with expanded options and flexibility for the expected speed, low latency bandwidth and quality service for which we're known."

- Chris Hendrie
Founder & CEO
BlackStar Group

Current Lumen customer compensated for their endorsement.

Lumen Digital highlights



Network management ease

- Usage-based pricing to help you realize cost efficiencies
- Lumen Control Center and Network Visibility Dashboard to help you manage network performance
- Backed by the #1 peered network globally¹ with 340,000 route miles of fiber to provide you with speed at scale
- Ideal for supporting fluctuating needs, rapidly growing demand, remote workforces, and real-time and AI applications



Advanced security and simple integration

- Designed to help your business effectively adopt and protect advanced and specialized connectivity needs with high reliability and enhanced visibility
- Built on an inherently secure network with AI-enabled threat intelligence backed by Black Lotus Labs
- Optional security add-ons that integrate directly into your network for simple management and monitoring
- Online portal that enables you to monitor security health data and customize alerts

Customizable networking for digital and AI innovation

Lumen® Private Connectivity FabricSM offers you the ability to build a custom network to securely transmit large amounts of data with low latency between multiple data centers and cloud environments. It's backed by the vast Lumen Network, which is built to power AI initiatives. Lumen expects to end 2025 with 16.6M intercity fiber miles and for that total to increase to 47M intercity fiber miles by the end of 2028. This capacity will enable you to manage massive data in-motion and near-zero-delay edge fabric for delivery virtually anywhere. Private Connectivity Fabric scales with your data usage and incorporates an integrated ecosystem for security and redundancy.

Beyond the award-winning Lumen threat intelligence and mitigation that secures the entire network, Private Connectivity Fabric solutions can incorporate extensive public-to-private network architectures that help enable strict security and regulatory compliance for sensitive data. Adding extra integrated security layers is simple and provides broad threat visibility to your team.

Flexible and future-ready

Our services take a modular approach to networking and security, enabling seamless activation via a digital platform that allows you to tailor your architecture to your business needs. Each layer of your architecture can be managed and monitored on demand so your services can increase in tandem with demand increases.

If your current network is struggling to meet growing bandwidth and latency demands necessary to develop AI/ML applications, or if you need diverse network connectivity

to connect multiple data centers and cloud environments, Private Connectivity Fabric provides you with the ability to build a fully customized, flexible architecture to meet your needs.

“ Lumen has the network infrastructure and the digital capabilities needed to help support Azure’s mission in creating a reliable and scalable platform that supports the breadth of customer workloads — from general purpose and mission-critical, to cloud-native, high-performance computing and AI, plus what’s on the horizon.”

- Erin Chapple

Corporate VP of Azure Core
Product and Design
Microsoft

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Build your ideal network

Private Connectivity Fabric offers a digital framework that enables you to construct your own network using trusted solutions from the Core Network Solutions and Lumen Digital portfolios.

Private Connectivity Fabric highlights



Digital framework for custom networks

- Award-winning network solutions across a geographically diverse fiber network
- Ultra-fast connectivity between data centers and multi-cloud environments
- Lumen Control Center and Network Visibility Dashboard that enable you to analyze and manage network performance
- Ideal for custom network needs and developing your own AI/ML applications



Flexible security options

- Fully customizable network architecture with massive private bandwidth capabilities
- Built on a secure, robust network backbone with AI-enabled threat intelligence backed by Black Lotus Labs
- Optional security add-ons that integrate directly into your network for simple management and monitoring

Compare solutions to find your best fit

Select from a suite of world-class solutions designed to satisfy a wide range of networking needs.

| | Core Network Solutions | Lumen Digital | Private Connectivity Fabric |
|--|------------------------|---|---|
| AI innovation | ○ | ○ | ● |
| Award-winning threat detection and mitigation across Lumen network powered by Black Lotus Labs | ● | ● | ● |
| Collaboration connectivity | ● | ○ | ◐ |
| Data center connectivity | ◐ | ◐ | ● |
| Internet or private connectivity | ● | ● <i>With digital activation and on-demand scale</i> | ◐ <i>With digital activation</i> |
| Managed network and security services | Available to add | Included | Available to add |
| Public cloud and edge services | ◐ | ◐ | ● |
| Real-time applications | ◐ | ● | ● <i>Best option for data-intensive or custom AI workloads</i> |
| Security analysis and management platform | Available to add | ● | Available to add |

○ Good ◐ Very Good ● Optimal

| What is the primary reason you're looking for a new network? | Core Network Solutions | Lumen Digital | Private Connectivity Fabric |
|--|------------------------|--|--|
| My company is navigating a digital transformation | ● | ○ <i>Best option if you plan to establish your own internal IT team</i> | |
| My company needs to fully customize our network architecture | | | ● |
| My company needs to increase our agility and innovation | ○ | ● | ○ <i>Best option for data-intensive workloads</i> |
| Managing costs is a top-of-mind issue, but we can't sacrifice quality | ● | ○ | |
| Managing costs is a top-of-mind issue, and we experience fluctuating business conditions | | ● | |
| Our IT team is stretched thin and needs improved simplicity and efficiency | | ● | |
| My company needs to overhaul our cybersecurity posture | ● | ● <i>Best option if you plan to establish your own internal IT team</i> | ● <i>Best option for data-intensive workloads</i> |
| My company has trouble meeting complex digital legal compliance standards | ● | ● <i>Best option if you plan to establish your own internal IT team</i> | ● <i>Best option for data-intensive workloads</i> |
| My company is focused on employee satisfaction and productivity | ● | ○ <i>Best option if you plan to establish your own internal IT team</i> | |

○ Good ○ Very Good ● Optimal

| What is the primary reason you're looking for a new network? | Core Network Solutions | Lumen Digital | Private Connectivity Fabric |
|---|------------------------|--|--|
| My company is competing primarily by providing stellar customer experiences | ● | ○ <i>Best option if you plan to establish your own internal IT team</i> | |
| We need help maintaining and managing a complex network architecture | | | ● |
| We need to privately connect multiple data centers, clouds and on-prem infrastructure | ◐ | ◐ | ● |
| My network needs to reach a wide array of remote locations | ● | ◐ | ● <i>Best option for data-intensive workloads</i> |

○ Good ◐ Very Good ● Optimal

Empower your business with Lumen Networking

Help secure your data, optimize application performance and improve digital experiences using high-bandwidth connections with continuous threat monitoring and mitigation. With approximately 340,000 global route miles of fast fiber and over 2,200 public and private data centers dynamically connected at your disposal, when you choose Lumen Networking, you'll enjoy robust, reliable connectivity, all while maximizing operational efficiency and minimizing your infrastructure's total cost of ownership (TCO).

- 35% savings in network costs²
- 40% boosted app performance²
- \$1.5M average value annually²

Lumen also offers managed and co-managed services to provide additional network and security expertise. Whether you need assistance with planning, implementation or 24/7 monitoring, the Lumen team acts as an extension of your internal resources to help maintain maximum performance and uptime.

“ Lumen is a great partner because they help us help our customers. Our relationship is built upon trust, reliability and mutual respect.”

- Todd Thielbar
IT Director
Rew Materials

Current Lumen customer compensated for their endorsement.

Make your network future-ready with a partner and network that empowers your business to achieve its goals.



Why Lumen

As you move forward in your AI journey, the infrastructure you choose will be the foundation on which your AI initiatives thrive. While other network providers upgrade their technology, our network is ready to meet today's AI demands, helping you stay ahead of your competitors.

Discover personalized solutions that align with your organization's scale and ambitions on the trusted network for AI. Because with Lumen, you're not just prepared for the AI revolution — you're leading it.

[EXPLORE SOLUTIONS](#)

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¹The Center for Applied Internet Data Analysis (CAIDA), *AS Rank*, March 2024.

²IDC, *The Business Value of Lumen IP Solutions*, March 2024.