

BROCHURE

# Choosing the right Ethernet solution

How to make the best choice for your business

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# Summary

As AI continues to reshape industries, businesses are searching for higher bandwidth and capacity to better support evolving digital demands. Whether your organization is just beginning to explore AI, integrating AI-driven applications, or fully scaling AI workloads, a strong, secure, and reliable network is essential. Ethernet has long been a proven solution for organizations that want administrative control and security over their network traffic – without requiring a lot of specialized knowledge or onsite IT staff.

With Ethernet, you authorize and manage anyone connected to your network at any time, from any connection. Because Ethernet is based on LAN technology and utilizes wired ports, it's an excellent solution for preventing unauthorized usage and malicious security breaches.

As IT decision makers prepare for the increasing bandwidth demands of AI, they are turning to Ethernet as a cost-effective solution for easily managing voice, data files, storage and more – with bandwidth that is simple to scale. In this guide, we explain why Ethernet may be a good fit for your company. We also look at why choosing the right vendor with the right solutions for your business will help ensure your organization's success.



Ethernet services remain one of the most important transport technologies in the US market. Enterprises' demand for private networks, specifically Ethernet services in the 1G and higher bandwidth ranges, will remain as companies require flexible, reliable, secure, and scalable networks

—Frost & Sullivan, Frost Radar: Ethernet Services in North Americas, 2023

As businesses expand and adopt AI-driven applications, they need a network that is secure, scalable, and high performing. Ethernet delivers low-latency connectivity – crucial for content-rich applications like video conferencing, financial transactions, and AI workloads that demand real-time data processing.

With a familiar, easy-to-manage infrastructure, Ethernet reduces complexity and maintenance time while providing a reliable backbone for secure data sharing across local, metro, and national sites, including cloud environments. As data volumes grow as a result of AI, Ethernet remains the de facto standard for high-bandwidth, flexible networking. Its Layer 2 architecture keeps traffic off the public internet, reducing security vulnerabilities while enabling seamless topology adjustments to meet evolving business and AI needs.

# Your business is only as strong as its connections

Lumen Ethernet Services give you the high-performance connectivity you need today – and the flexibility to cost-effectively adapt to new networking requirements. Your business benefits from maintaining a secure, private connection to all your business locations and cloud-based applications. Customized for your business, our Ethernet solutions keep your content flowing everywhere it needs to go – all from a trusted partner who can handle all your voice, data, cloud apps, storage and more.

Counted on by organizations across the globe, Lumen Ethernet Services provide the business benefits companies demand, including:



## Reliability

Competitive availability and site-specific latency SLAs, allows minimal jitter, latency, and packet loss for optimal performance.



## Performance excellence

Lumen has earned the MEF CE 3.0 Certification, highlighting our commitment to top-tier Ethernet performance and reliability



## Privacy and security

Private network connections for customers requiring secure voice, data, backup and other network services



## Application performance

High-performance voice and data applications supported, with visible class of service performance, network reliability and advanced security



## Wide-Area coverage options

Regional, national, and international connectivity gives you great coverage options



## Network monitoring

Lumen network monitoring and network management expertise minimizes downtime, increases application performance and meets the latest networking requirements

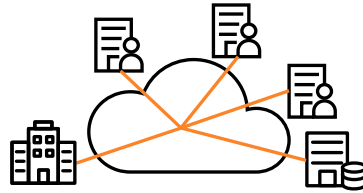


## Scale bandwidth on-demand

Scale dynamically by flexing bandwidth up to 3x to accommodate peak traffic demands, while provisioning connections between data centers and cloud providers in real-time

# Lumen Ethernet Solutions

## Lumen E-LAN®

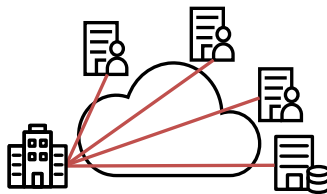


Lumen E-LAN is a multipoint-to-multipoint Ethernet service type that can be used to connect multiple user network interfaces between any Ethernet enabled markets in North America, EMEA and Asia Pacific. The service is also well suited to voice and video applications.

### Lumen E-LAN provides:

- Bandwidth options from 2 Mbps to 100 Gbps
- Four classes of service to prioritize traffic
- Custom solutions designed by Lumen engineers

## Lumen E-LINE®



Lumen E-Line is a simple, powerful Ethernet private line service designed to increase operational efficiency and improve your return on investment.

Offering point-to-point and point-to-multipoint, private connectivity with scalable, dynamic bandwidth, Lumen E-Line is ideal for providing high-speed connections among corporate headquarters, data centers and other business locations around the world.

### Lumen E-LINE provides:

- Dedicated bandwidth options from 2 Mbps to 100 Gbps
- Visibility into network performance statistics on an end-to-end, site-by-site basis, with enhanced management

## Lumen® E-Access



Lumen E-Access is a point-to-multipoint Ethernet service that connects External Network-to-Network Interfaces (ENNI) and User Network Interfaces (UNIs) across Ethernet-enabled markets in North America and Asia Pacific. This service provides high-speed, reliable, and secure connectivity, making it ideal for data center and cloud applications Lumen®

### E-Access provides:

- Bandwidth options from 2 Mbps to 100 Gbps
- Carrier-grade design choices and templates for robust performance
- Direct connection to the Ethernet core with no reach restrictions, regardless of metro design or parameters

## Enhance your Ethernet Solutions

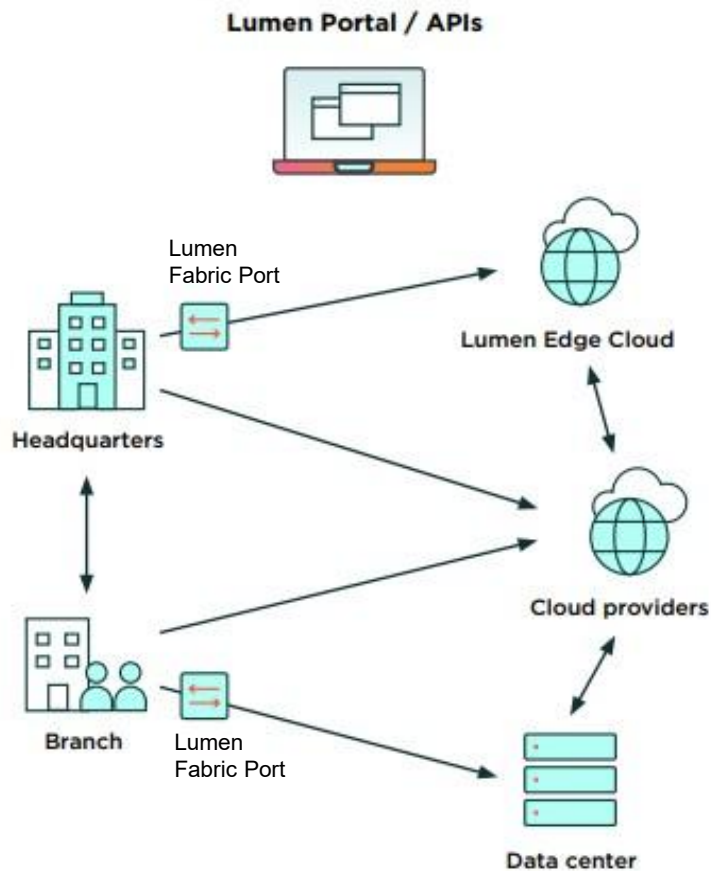
### Lumen® Ethernet Fabric Connect

Lumen® Ethernet Fabric Connect enhances Lumen Ethernet Services by delivering the next-generation, on-demand Ethernet experience designed for greater agility and control. This solution is ideal for organizations that need to connect data centers, clouds, and critical locations quickly and efficiently while adapting to changing bandwidth requirements.

As part of Lumen's Network as a Service portfolio, Ethernet Fabric Connect enables customers to scale bandwidth within minutes through digital provisioning and centralized management. This flexibility helps organizations respond faster to evolving application needs while simplifying multi-cloud networking and operational complexity.

# Lumen® Ethernet Fabric Connect

Lumen® Ethernet Fabric Connect enables a consumption-based approach to Ethernet connectivity, allowing businesses to scale bandwidth on demand instead of over-provisioning for peak usage. By aligning network capacity more closely with actual application needs, customers gain better cost visibility and control, helping optimize spend and manage budgets more effectively as demands change.



Lumen Ethernet Fabric Connect provides:

- Centralized self-service management through Lumen Connect
- On-demand bandwidth scaling within minutes
- Private Ethernet connectivity to securely extend networks across additional locations, data centers, and cloud environments
- Connectivity to AWS, Google Cloud, Azure, Oracle, Equinix, Digital Realty and over 2,200 third-party data centers

## Conclusion

Your business can't afford to wait any longer to update its communications. Every day you delay can be costing your organization money, time and lost opportunities for growth. Now is the time to increased efficiency and employee productivity simply by updating your business network with a cloud-based, on-premises or fully managed solution from Lumen.

**Discover the full value of Lumen Ethernet Services.  
Learn more at [Lumen.com](https://lumen.com)**

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1. Modernizing the Network with Performance-Enabled Digital Infrastructure Info brief, IDC, November 2023 2. The State of Digital and Network Transformation in U.S Enterprises Infographic, IDC, December 2023

## Why Lumen?

Lumen empowers businesses to thrive in today's ever-changing digital world with trusted solutions in networking, cloud connectivity, and cybersecurity. Backed by a powerful global network and a deep commitment to innovation and security, we deliver seamless, secure, and scalable operations that fuel transformation.

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