

# Lumen® Private Connectivity Fabric<sup>SM</sup>

High-speed, secure, and scalable connectivity solutions tailored to your enterprise needs

Facing a rapidly evolving technology landscape, enterprises continue to stretch their network capacity by introducing adaptive applications powered by AI and ML, facilitating data in larger quantities than ever before. Not only does this challenge existing IT stacks to keep up with the demands, but it also introduces new endpoints, leaving the door open for bad actors to infiltrate networks. Enterprises need a network infrastructure that can withstand big data, adapt to machine intelligence models, and support future growth.

Lumen® Private Connectivity Fabric<sup>SM</sup> can enhance business agility by providing network resilience that withstands increasing data volumes and applications. Streamlining with custom network architectures allows for higher-speed, more secure connectivity, that supports real time decision making.

## As data volumes surge, the demand for robust connectivity intensifies - what is challenging your network infrastructure today?

AI/ML based applications demand network infrastructures capable of processing vast quantities of data with exceptional speed. Unfortunately, conventional network systems often lack the necessary capacity and flexibility needed to fulfill these stringent requirements.

As organizations transition to cloud infrastructures to support this influx of data, the necessity for robust cloud connectivity is escalating. High-performance connectivity becomes critical to ensure seamless access to cloud resources and efficient handling of data-driven applications.

Network infrastructures must be able to reliably support the high throughput and low latency required by AI driven applications. Customizable networking solutions empower organizations to be dynamic in response to data demands.



“ **73% of** enterprises are using or plan to use artificial intelligence in customer engagement solutions in the next 12 months.”

**Is your network ready?**

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## Private Connectivity Fabric solutions to transform your connectivity infrastructure and unleash business growth:



### **Fiber infrastructure - metro & national**

- Provides extensive, high-speed connectivity for both metropolitan and nationwide areas. Ideal for robust bandwidth, security, and cost-efficiency.



### **Wave service - metro & national**

- Pre-lit wave services provide reliable, cost-effective 10Gbps+ networking without fiber ownership complexities. Offers secure, uncontended transport.



### **Ethernet - metro & national**

- Enables flexibility, rapid deployment, cost control, and high performance without traditional networking complexities. Easily integrates with existing infrastructure and security products.



### **IP - intranet & internet**

- Digitization integrates public and private IP domains essential for gateways, peering, on-demand solutions and security.

## **Why Lumen?**

Lumen stands as a trustworthy partner for your Private Connectivity Fabric needs, offering a future-ready infrastructure that scales with the pace of digital innovation. With robust security measures and comprehensive operational support, including space, power, and network management by national teams, Lumen helps ensure your business is well-prepared for tomorrow's challenges. Opt for Lumen's nationwide deployment to mitigate risks and avoid the uncertainties of self-build projects, while benefiting from rapid deployment that helps accelerates your time to market. Our holistic approach extends beyond Private Connectivity Fabric, delivering a tailored, all-encompassing suite of network services for large enterprises.

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