Lumen® Network Storage

Keep data close and transactions fast with low-latency, cost-effective network storage.

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Summary

High-performance edge apps need near-instant data response—within milliseconds—to enable real-time data interactions. The closer the data center is to the data consumption, the lower the latency and the better the customer experience.

Lumen Network Storage delivers just that: low latency storage with cloud-like flexibility, scale and pricing that you can spin up virtually wherever, anytime your data demands.

Because we build storage into the network, our Network Storage at the edge has the power to:

- Ingest and reduce data
- Take critically, timely snapshots
- Make smart decisions about how and where to move data
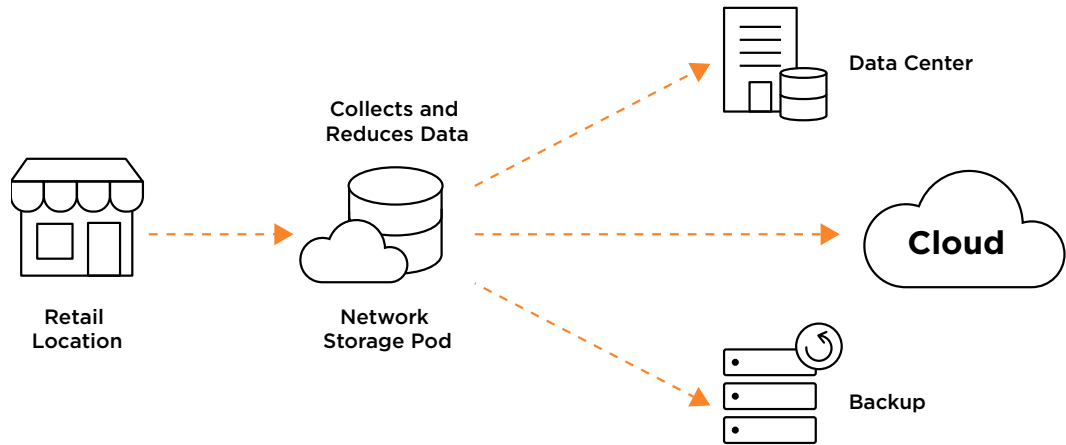- Send simultaneous copies to multiple locations

Lumen Network Storage provides predictable performance within an optimized, flexible cost structure. You pay only when it's needed, allowing you to scale up or down and try out new expansions while mitigating cost and risk.[1]
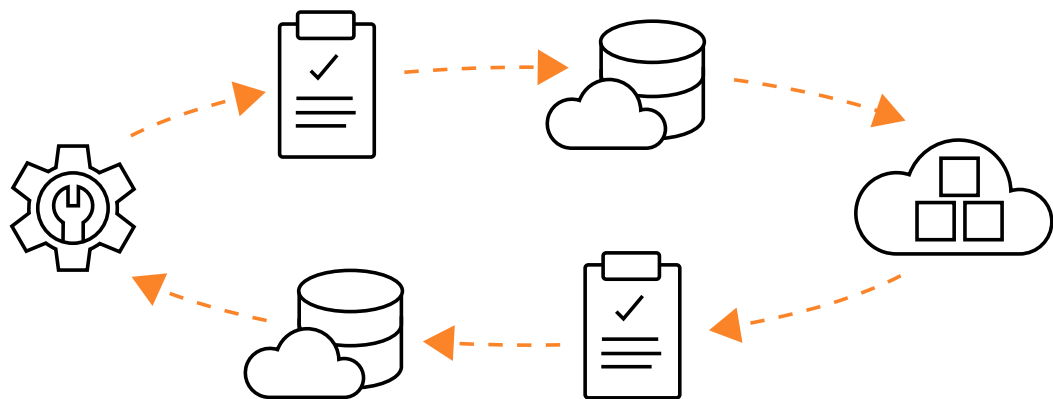
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Benefits

Real-time ingestion and updates

Designed to make data easier to integrate with near-zero latency, allowing for the collection of more data where users consume it and enabling business processes to be implemented in milliseconds.

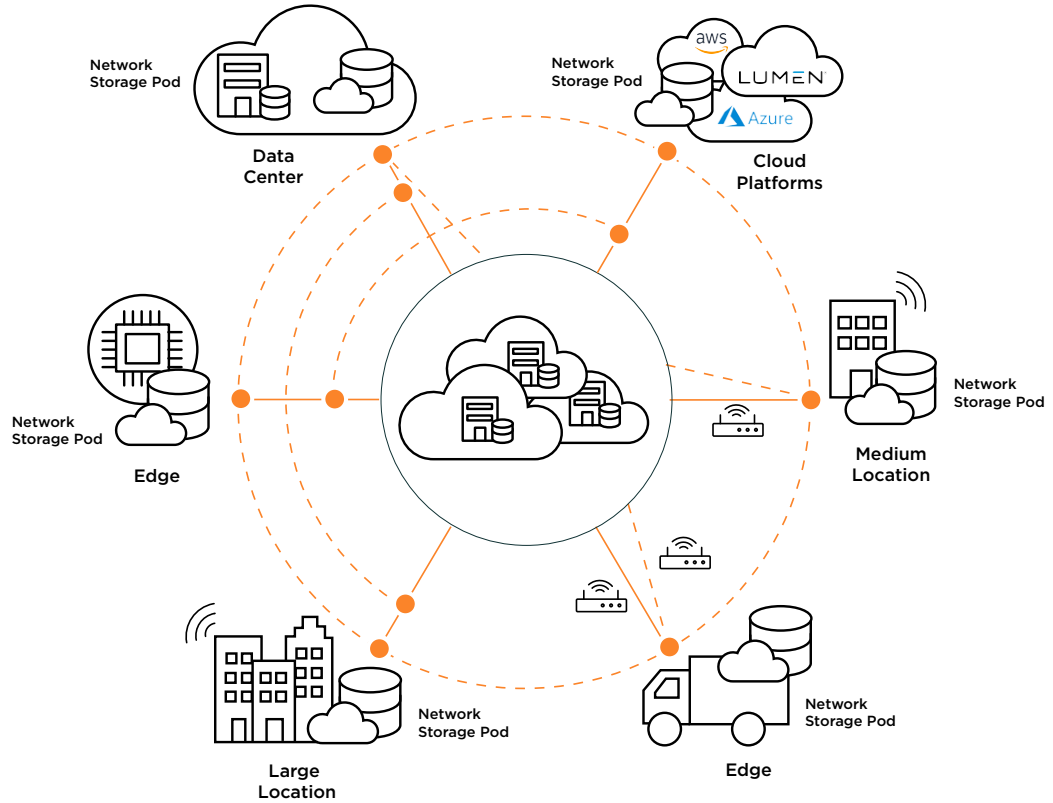Retail Location → Network Storage Pod (Collects and Reduces Data) → Data Center / Cloud / Backup

Fast development and testing

Modern app development may create storage issues for datasets that exist temporarily. Rapidly repeated testing requires fast provisioning and storage movement. Our Network Storage solution distributes data to multiple locations quickly and efficiently from the network storage node.
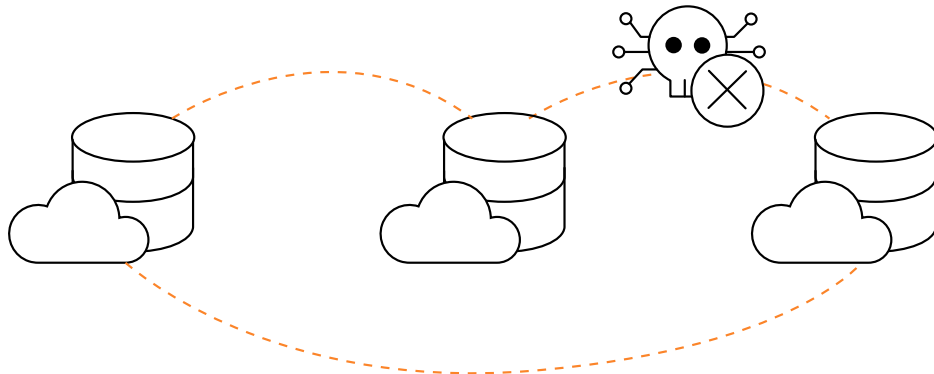

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Improve customer experience

Remote offices, retail stores and branches receive fast and efficient data access to enhance the customer experience. We bring cloud compute and storage capabilities to data that helps reduce wait times at the edge for data sharing across sites.

Built-in protection

Flexible point-in-time snapshots and replication options help improve your disaster recovery strategy and provide additional protection. Rewind to previous versions or switch and sync to other copies for consistent recovery from cyberthreats, natural disasters and outages.

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General use cases

Developing and testing applications fast

Network Storage helps reduce complexity and retain data control because the storage presentation layer doesn't change. By replicating data in real-time to remote data centers, performance logic is configured to automatically tier data to a lower cost tier at one or more remote locations.

Controlling application lifecycle management

By connecting devices and developers at the edges of your network, Network Storage provides efficient space and data protection for application lifecycle management. Based on pre-defined rules, you can migrate data to object storage and replicate incremental changes. On this schedule, data gets pulled from object storage to middle tier for processing, a solution designed to provide more accurate results at a fraction of the cost.

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Use cases by industry

Banking institutions
Combining edge computing with smartphone apps allows banks to better target customer services. ATMs and kiosks can gather and process data to help make them more responsive and capable of offering an expanded array of features.

High-volume financial trading
A millisecond of lag in a trading algorithm computation can mean substantial losses. By placing edge compute servers in data centers near stock exchanges around the world, brokers can run resource-intensive algorithms closer to the source, enabling access to the most accurate and up-to-date information.

Restaurants
Restaurants can ingest Internet of Things (IoT) data into a Network Storage Pod, also known as a Point of Presence (POP). There, data can be processed at the edge, consumed at low latency at the store and replicated to a core data center for aggregated analytics.

Healthcare industry
IoT devices can generate vast amounts of patient-generated health data (PGHD), allowing healthcare providers to access critical information in real time and throughout the course of diagnosis/treatment. By securely storing this IoT data at the edge, in the cloud or with a hybrid approach, providers can often achieve much better response times vs. data stored in centrally located databases.

Athletic organizations
Network Storage at the edge gives fans the ability to watch games from virtually any location inside a stadium or arena. By aggregating data from thousands of cameras to align views and pass content into video networks, organizations can broadcast within the same time delay as live TV.

Automotive industry
Connected vehicles increasingly strain network infrastructures. Ensuring these autonomous vehicles collect, process, store and transfer data immediately and securely is critical. They must communicate to receive maintenance alerts and send data back regarding usage, as well as sharing information with other vehicles, traffic apps and local municipal networks. Network Storage transmits and receives vehicle data via edge computing servers stored on the network with low latency and embedded security.

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Lumen Network Storage features

Provisioning	• Storage fabric nodes positioned throughout the network • Performance tiers accommodate a wide range of data requirements • New portal interface simplifies orchestrated provisioning
Intelligence	• Smart data reduction designed to increase storage efficiency and reduce replication time • Smart policies automation adjusts for spikes and slowdowns • Point-in-time snapshots provide data integrity
Management	• Manage all storage across multiple nodes from a single management interface • Minimize complexity • Adapt to multiple platforms
Control	• Constrain copies within selected geographical area • Support archiving and backup

The Lumen advantage

Lumen operates one of the most highly peered global IP networks with network storage accessing and connecting to over 2,200 public and private data centers. We deliver a network experience built for easy setup, simple purchase and fast installation—all supported on a secure, stable technology platform designed to connect digital business across the globe.

Get more details and see how Lumen Network Storage can close the gap between speed,productivity and business efficiencies.

Contact a Lumen storage consultant now at 1-855-397-0251.

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