Unify Enterprise Data Silos and Accelerate Insights with Qumulo on Cisco UCS

Value statement

Enterprises today are challenged by fragmented, multi-format data sprawled across dozens of systems—ranging from backups and medical imaging to user file hosting, OLAP analytics, and beyond. This fragmentation slows innovation, impedes AI readiness, and complicates compliance. The joint solution from Cisco and Qumulo delivers a unified data platform that breaks down these silos, supports massive scalability, and empowers organizations to turn all their data—regardless of source or format—into actionable insights, whether on-premises, in the cloud, or at the edge.

Overview

Qumulo's Data Platform, deployed on Cisco UCS, transforms complex and disparate data environments into a single, scalable data fabric. Customers gain low-latency, multi-protocol access for workloads including AI/ML, media editing, genomics, analytics, and security, with real-time visibility and management. As your data landscape expands—whether to 10 PB or beyond—Cisco® servers deliver unmatched I/O throughput and capacity, while Qumulo Cloud Data Fabric ensures seamless hybrid- and multicloud data mobility.

Figure 1.   UCS powers the data platform

Key capabilities and benefits

- **Consolidation of fragmented data silos**
  - Integrate dozens of diverse workloads (for example, backup, imaging, analytics, CAD, genomics, video, and user files) into a single, unified platform.

  - Get support for multi-protocol access (for example, POSIX, NFS, SMB, and S3) that enables all your applications and users to seamlessly interact with data, regardless of original format or source.

- **Scalable, future-ready infrastructure**
  - Effortlessly scale from terabytes to tens of petabytes with Cisco UCS servers for dense, hybrid-flash or hybrid-disk capacity.

  - Benefit from seamless cloud integration through Qumulo Cloud Data Fabric allowing workloads to burst into public cloud, leverage cloud analytics, or repatriate data as needed—preserving control and flexibility.

- **Unified edge-to-core-to-cloud data fabric**
  - Deploy Qumulo on Cisco UCS at the core and Cisco Unified Edge at remote or branch locations for consistent data management everywhere.

  - View, protect, and govern all data—no matter where it is generated or consumed—under a single namespace.

- **Zero-touch provisioning and fleet management**
  - Get blueprint-driven deployments across thousands of locations, with no manual intervention or costly truck rolls.

  - Get fleet-wide policy enforcement, updates, and monitoring from a single console and reduce operational complexity.

1. **AI-Ready and Advanced Analytics**

- Embedded GPUs in Cisco Unified Edge nodes enable local inference and analytics for applications like fraud detection, video analysis, and operational optimization.

- Consolidated data platform accelerates AI/ML pipelines, providing clean, accessible datasets for training and inference.

2. **Enterprise-Scale Observability and Security**

- Native integration with observability platforms (e.g., Splunk, OpenTelemetry) for comprehensive log, metric, and trace analytics across the entire enterprise.

- Centralized security, compliance, and governance, with real-time alerts and historical auditability.

Key features

- **Reduce IT complexity and cost:** Consolidate hardware, vendors, and management overhead. Zero-touch provisioning minimizes hands-on IT effort.

- **Accelerate insights:** Real-time, unified access to all enterprise data enables faster, richer analytics and decision-making.

- **Enhance security and compliance:** Centralized data management and observability improve compliance and reduce risk.

- **Future-ready scalability:** Cloud-ready architecture scales with your needs, protecting your investment.

- **Unlock new revenue streams:** Cisco and Qumulo's joint solution enables monetization of cloud transitions, while maintaining sovereign control and repatriation options for data and workloads.

Use cases

Table 1.   Data platform delivers value for key industries.

Industry	Use-case description
Healthcare	Manage dozens of data types and make accessible by AI models for predictive analytics and imaging.
Retail	Consolidate data types, including video to support: Video Surveillance and Security, Point-of-Sale and Payment Processing, and Loss Prevention and Risk Management.
Municipal Government	Centralized storage for surveillance, camera video, automated publishing pipelines for public meetings, streamlined compliance retention policies.

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Learn more

Experience how Cisco and Qumulo can unify, simplify, and make future-ready your data infrastructure. **Learn more at Cisco Computing**.