

## QStar Kaleidos simplifies and unifies large scale storage

*Create an elegant method to store and protect petabytes of data.*

Traditional NAS-RAID based file systems in large scale storage environments create complex, confusing forms of storage and were never designed for the modern demands of multi-petabyte cloud-scalability. The QStar team decided to make managing massive amounts of archive storage simple; with Kaleidos Object Storage platform. Kaleidos comes from two Greek words “Kal” meaning beautiful and “Eidos” meaning form. QStar Kaleidos simplifies and unifies large scale storage, creating an elegant method to store and secure petabytes of data for long periods of time.

### QSTAR KALEIDOS OBJECT STORAGE PLATFORM

The QStar Kaleidos is an S3-compliant object storage platform that enables enterprises and service providers to build reliable, private, hybrid or public cloud storage environments that deliver reliability, security and unlimited scalability.

QStar Kaleidos employs high-density industry standard servers and high capacity disk storage; and is the only object storage provider that integrates tape and commercial cloud as part of the object store, for lowest-cost long term data preservation.

QStar Kaleidos helps service providers to offer enterprise clients reduced storage costs, unlimited scalability, superior data protection and flexibility, while gaining improved customer retention through enhanced service delivery (SLA), reduced acquisition costs, and enhanced agility through global accessibility across all end user devices.

### RELIABLE, DISTRIBUTED ARCHITECTURE, DELIVERING UNLIMITED SCALABILITY

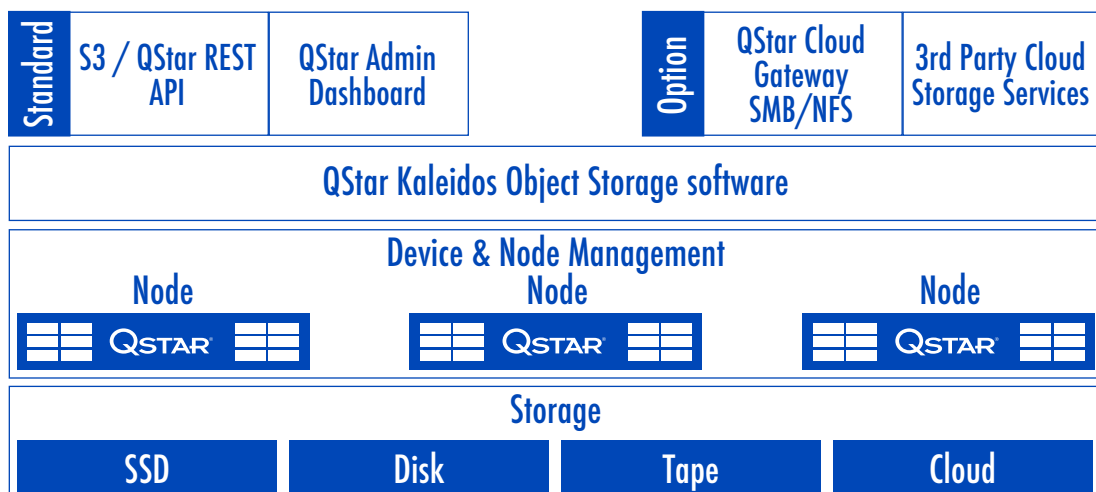
QStar Kaleidos intelligent, fully distributed architecture scales dynamically from three nodes to 64 nodes allowing the seamless addition of nodes as capacity requirements change from Terabytes to 10s of Petabytes. Nodes are automatically discovered and storage rebalanced, to quickly become part of the distributed object store. Over time, newly added nodes can take advantage of enhanced processors or improved disk capacities as they become available, allowing older, less economical nodes to be removed, so efficiency and performance can improve effortlessly as an organization grows, without service downtime.

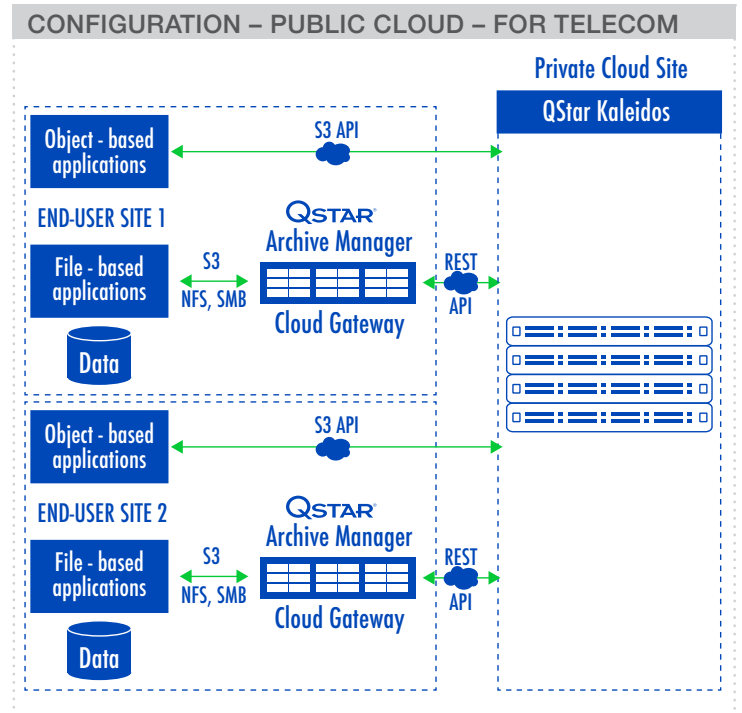
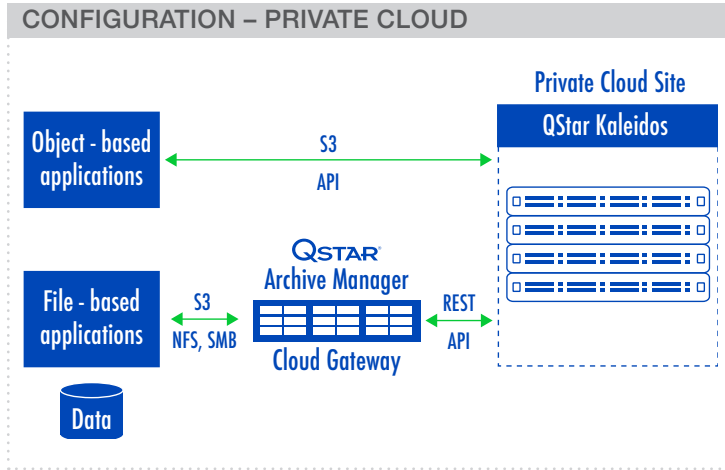
The solution is easily managed by a single Administrator and delivers the highest levels of durability and availability, as the self-managing, self-healing architecture continuously monitors object status and reliability of the system. Kaleidos employs a combination of both multiple distributed copies and erasure coding, for superior data protection.

### BENEFITS

- **Infinite Scalability**  
Scales from Terabytes to 10s of Petabytes
- **Superior Data Protection & Durability**  
Provides ‘many 9’s’ of data durability with no single point of failure to ensure data is protected
- **Available, Resilient & Secure**  
Self-managing, self-healing architecture, repairs made with no downtime
- **Enterprise Ready**
  - Native support for object and file access; via S3 or REST API and optionally SMB/NFS interfaces
- **Tape / Cloud Integration**
  - Option to integrate tape and cloud for lowest-cost long term data preservation
- **Disaster Prevention**
  - Option to easily write data to two, three or four replica stores or four replica stores and add cold object copy
- **Low Total Cost of Ownership (TCO)**
  - Reduce backup, optimizes storage utilization and reduce overall storage acquisition cost

### QStar Kaleidos Stack



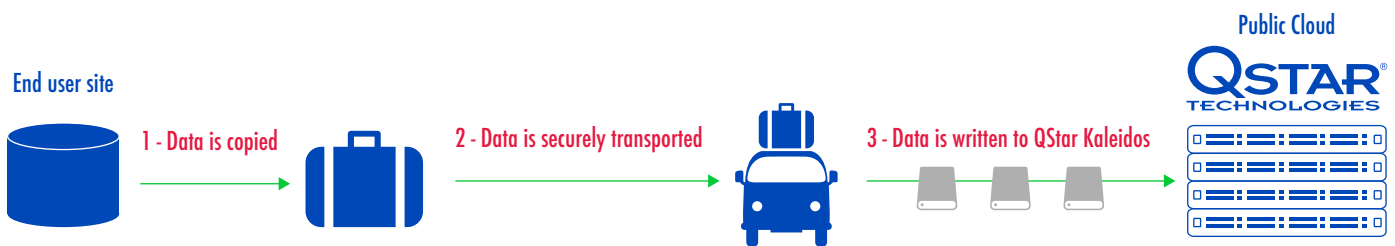


## QSTAR CLOUD GATEWAY OPTIONS

In addition to supporting object-based applications through Kaleidos' standard S3 access, by using the QStar Archive Manager cloud gateway, organizations can also store and access files in the object store using SMB, NFS and S3 protocols. Archive Manager can be located at the same site as Kaleidos or, for commercial cloud installations, can act as "Edge" servers pushing data to the cloud from multiple individual business users. Using the QStar Archive Replicator cloud gateway option, organizations can create robust disaster prevention scenarios, with the ability to write data to two, three or four replica stores. For example, an organization can create a copy to Kaleidos, a copy to Amazon S3 and a copy to an LTFS based tape library for the lowest cost archive storage.

## QSTAR CLOUD EXPRESS MIGRATION SERVICE

QStar helps service providers win new customers by accelerating onboarding of enterprise organizations by offering a simple, fast and economical solution to move file and industry specific unstructured data sets into the cloud. QStar ensures that the move is transparent and non-disruptive during the business transformation.



QStar also provides "OSM - Object Storage Manager", object storage software that allows users to procure their own hardware (requires pre-qualification)

For more information, please contact the archiving experts at QStar: