

# Compliance Unchained

Liberate Your Data from Centera with iTernity Compliant Archive Software (iCAS) and Quantum QXS Disk Storage

## THE PROPRIETARY COMPLIANCE STORAGE CHALLENGE

Although technology has steadily improved, complying with data retention mandates has never been easy. Where Write Once, Read Many (WORM) optical libraries were once the method of choice, disk-based object stores are now standard. The grandfather of HDD-based compliance systems was Centera from EMC, an early object store with robust compliance features. Centera spawned a host of competitors (several now obsolete), including Hitachi Content Archive Platform (HCAP), NetApp SnapLock, Dell DX, and IBM DR550. These systems were all proprietary, a necessity at the time but distinctly “retro” today.

The world has moved on. Buyers realize the value of a storage system isn't in the storage devices themselves, but the software intelligence that resides above them. Software-defined compliance archiving is the new phase of data management evolution. The software handles the complexities of compliance, securely encapsulating data on your choice of storage hardware.

If your organization still has data trapped in Centera or one of the other proprietary archive silos, you have to make a change. The most notable features on a recent Centera roadmap are the lack of substance and talk of migration—and

maintenance costs can only go up. Major industry analysts have been waving a [red flag](#) for some time. Don't get conned into migrating to another closed system. Take this opportunity to evolve your compliance archive into the 21st century.

Purchasing a new storage system is the easy part. The challenge is always in the data migration—and with compliance regulations, it's critical to get it right. Fortunately, iTernity and Quantum are working together to ensure that you can migrate all of your data following the compliance rules.

## THE SOLUTION

Quantum and iTernity are partnering to get your trapped data off of Centera onto a future-flexible, open platform that provides substantial control over long-term storage costs.

Think about how data was stored two or three decades ago, and at what cost. Now think about how you might store data two or three decades hence. The trends are clear—storage capacity becomes less expensive over time, and new types of storage and new ways of storing data regularly arise. For a long-term compliance archive to be viable, it must be flexible enough to enable “riding the curve” as storage prices decrease and storage technology advances—without vendor lock-in.



iTernity iCAS is enterprise archive and data protection software that helps organizations store data flexibly and securely. Built on industry standards and supporting multiple storage technologies, iCAS enables future-proof archiving and aids compliance with regulations, such as the Sarbanes-Oxley Act (SOX), the 8th EU Company Law Directive (EuroSox), the Health Insurance Portability and Accountability Act (HIPPA), SEC Rule 17a-4(f), Basel II, the Payment Card Industry Data Security Standard (PCI DSS), and others. More than 500 enterprises worldwide rely on iCAS as their flexible, cost-effective, future-proof platform for critical data.

The key to iCAS software's flexibility is its unique and patented Content Storage Container (CSC) technology. CSCs encapsulate the file being stored along with relevant policy information and metadata. CSCs are protected against modification on any storage, verifiable against corruption,



and automatically repairable if corruption is found. Because they encompass all relevant metadata, CSCs are easily migrated between storage systems with no loss of security or functionality. For environments requiring the highest security, CSCs may be optionally encrypted, and optional compression can reduce storage costs.

Quantum's QXS provides cost-effective, high-performance hybrid storage. Configurable with a mix of solid-state drives (SSDs) and hard disk drives (HDDs), "hot" data resides in flash for best performance while "colder" data lives on an HDD tier. The unique Real-Time Tiering engine moves blocks between tiers every five seconds. The result is storage performance that compares favorably to an all-flash array—at a fraction of the cost. QXS can give your compliance archive a performance boost while simultaneously reducing total cost of ownership (TCO).

In association with iTernity and Quantum, we offer a network of trained and experienced partners to shepherd your data from Centera to iCAS and QXS platforms. You may be surprised to find out that the complete solution—including professional migration services—can be very economical.

The combination of iCAS and Quantum QXS hybrid storage delivers an open, cost-efficient, flexible compliance archive solution that can evolve with your organization.

#### KEY FEATURES OF iTernity iCAS SOFTWARE

**Secure:** Data stored with iCAS is secure against disaster, tampering, and corruption—thanks to features such as replication, strong hashing, and self-healing.

**Open:** iCAS software enables WORM storage, regardless of the underlying storage hardware. Data is easily migrated to future storage platforms with no loss of security or visibility.

**Simple:** Easy to implement, integrate, and manage, iCAS interfaces via a web services API or a simple network-attached storage (NAS) gateway function.

**Certified:** [Cohasset Associates Inc. has certified](#) that the iCAS solution, when properly configured and used, meets applicable requirements of SEC Rule 17a-4(f) and CFTC Rule 1.31(b)-(c). [KPMG has certified](#) the legal conformity of iCAS for tamper-proof archiving of data, meeting all relevant statutory guidelines.

**Validated:** iTernity iCAS is compatible with a broad and growing ecosystem. More than 100 applications are currently validated, spanning document management system (DMS), enterprise resource planning (ERP), enterprise content management (ECM), picture archiving and communication system (PACS), email use cases, and others.



## KEY FEATURES OF QUANTUM QXS

**Intelligent tiering:** Q-Tier dynamic heuristics ensure the most requested data resides on the highest performing storage tier—automatically and in real time—only consuming 1 to 2% of the controller CPU. This ensures optimal use of higher-cost, high-performance storage.

**High performance:** QXS is built for speed—whether you're deploying all HDD, all SSD, or something in between. Active-active controllers, multi-core processing, and separate management and data paths ensure top performance. Q-Tier provides all-flash performance at a fraction of the cost. Q-Turbo's high-bandwidth, low-latency active-active write-back caching provides a 50% write improvement boost vs. traditional methods of redundant controller cache management.

**Built-in reliability:** With its dual-redundant design that eliminates single points of failure, QXS achieves an industry-leading 99.999% availability.

**Certified durability:** Certified compliance with stringent telecom NEBS Level 3 and US government MIL-SPEC standards ensures operation in the harshest conditions.

**Tax free:** QXS software licenses are provided in perpetuity for the system regardless of the capacity managed. Other vendors charge for software features per terabyte managed, a "capacity tax" that increases software license fees every time capacity is added.

## CONCLUSION

With Quantum and iTernity, you can:

**Manage costs:** No more overpaying for proprietary silos and software. iCAS licenses are transferrable to new storage systems. Buy it once, use it for decades. QXS software features are offered on a "flat-rate" per system basis, not based on capacity. QXS is general-purpose block storage, and priced accordingly.

**Avoid lock-in:** iTernity iCAS enables easy integration with archiving applications today and in the future. It is based on industry standard technology, such as SMB, SHA512, and AES-256 encryption, and accessible via a web services API and/or NAS file system gateway.

**Protect data:** Archived data is protected against tampering and unauthorized deletion. Dual-write and self-healing capabilities provide assurance against corruption and site disaster. Access to data is protected with redundant and highly available configurations.

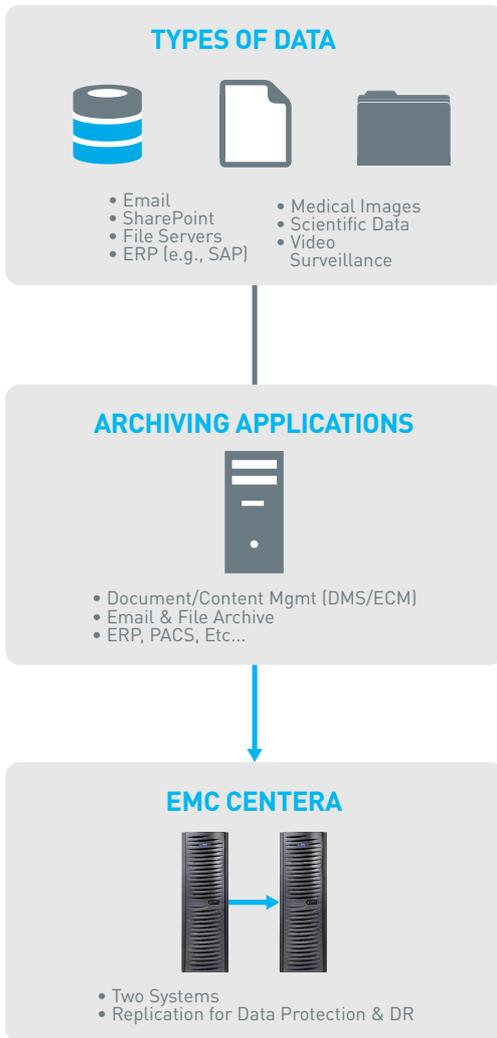
**Satisfy regulations:** No technology or software by itself provides the total answer to compliance, but iCAS software plus a QXS archive can be the key technology enabler for building a compliance archive—without busting the budget. iCAS is certified to meet key regulatory requirements.

**Scale forever:** QXS storage systems attach via Fibre Channel, iSCSI, or SAS, and scale to 1.9PB per array with high-density chassis designs. iCAS has no limits on archive size, and is able to seamlessly span across multiple storage systems for limitless scalability.

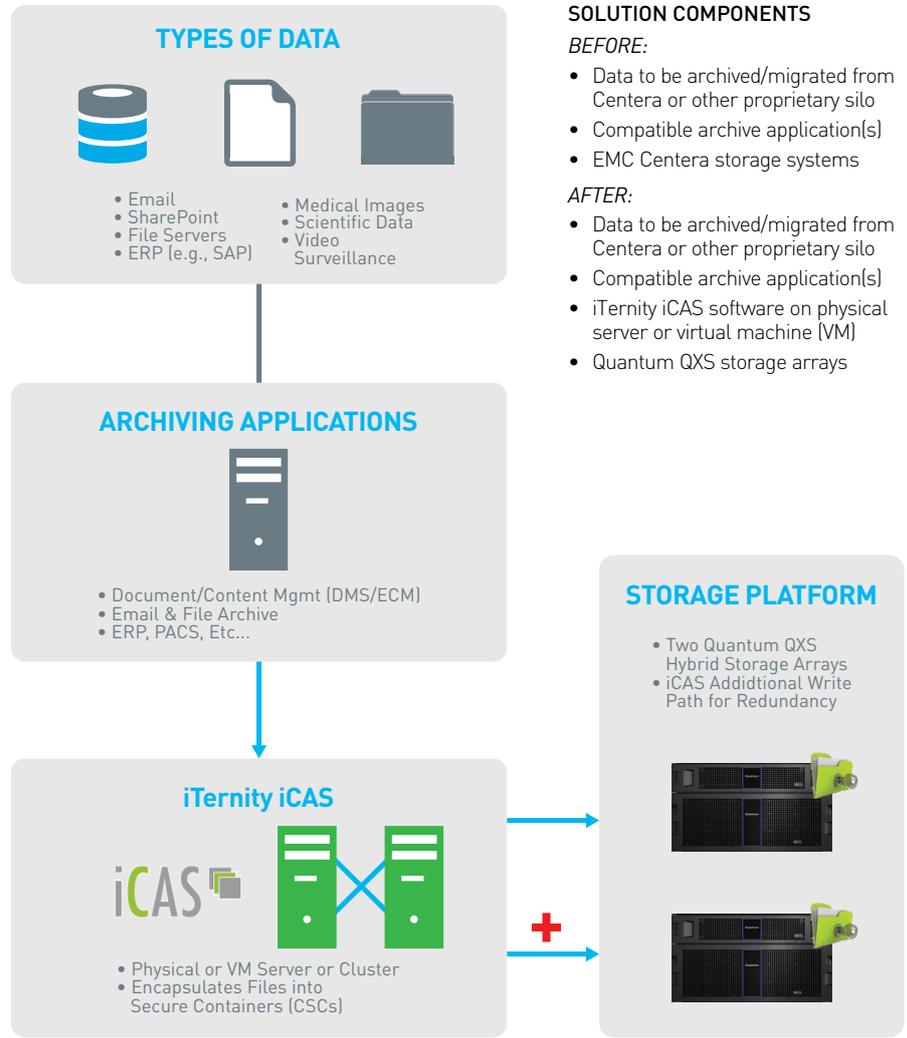
**Make the transition:** Our network of knowledgeable and experienced partners can help you develop a strategy and plan to transition from your legacy compliance archive to the iCAS and QXS solution.

## SOLUTION ARCHITECTURE

### Centera – Before Migration



### iTernity iCAS – After Migration



### SOLUTION COMPONENTS

#### BEFORE:

- Data to be archived/migrated from Centera or other proprietary silo
- Compatible archive application(s)
- EMC Centera storage systems

#### AFTER:

- Data to be archived/migrated from Centera or other proprietary silo
- Compatible archive application(s)
- iTernity iCAS software on physical server or virtual machine (VM)
- Quantum QXS storage arrays

### ABOUT QUANTUM

Quantum is a leading expert in scale-out tiered storage, archive, and data protection, providing solutions for capturing, sharing, and preserving digital assets over the entire data lifecycle. From small businesses to major enterprises, more than 100,000 customers have trusted Quantum to address their most demanding data workflow challenges. Quantum's end-to-end, tiered storage foundation enables customers to maximize the value of their data by making it accessible whenever and wherever needed, retaining it indefinitely and reducing total cost and complexity. See how at [www.quantum.com/customerstories](http://www.quantum.com/customerstories).