



# Cloud Storage Security for Major Bank



## Business Situation & Challenge

### Business Situation

The client is a leading financial institution serving 10's of millions of customers around the world. Its portfolio of financial services, brands and businesses delivers world leading service, helping its customers, communities and employees prosper and grow. As part of that vision, our client needs to ensure that stored data is secured to the highest standards of confidentiality and integrity, while remaining readily available to authorized individuals.

### Challenge

The client wanted to take advantage of cloud storage services to reduce costs, increase availability, and improve performance, while meeting internal and regulatory requirements. It was seeking a cloud storage solution that satisfied its stringent requirements for confidentiality and integrity and that provided full and complete control over data access, without any chance of exposing data content to service providers or other cloud service users. In addition to the security aspects, the solution needed to easily integrate with existing IT systems and available cloud storage APIs.

## Solution

QuintessenceLabs' proposed solution meets these security and performance needs. Combined with qCrypt-xStream™, qSecure™ operates as a cryptographic gateway (via WebDAV, CIFS or NFS interfaces) to clients of the system, while using local or network file storage, and/or cloud storage services. The qSecure appliance, integrated with qCrypt-xStream, encrypts each data file with a unique, full entropy key before storing the encrypted file in the cloud. A secure local cache can be enabled, improving performance by keeping local copies of files that are accessed most often.

By configuring their IT systems to use the qSecure crypto gateway as a storage proxy, the client will satisfy its own stringent security, performance and control requirements as well as regulatory requirements.

## Benefits

The crypto gateway solution offered by QuintessenceLabs will allow the client to:

- Take advantage of low cost, cloud storage services without sacrificing confidentiality, or data integrity.
- Integrate multi-factor authentication into their data access applications, thus providing the data with greater protection from unauthorized access.
- Improve availability of internal services by offloading storage management to the cloud storage service provider, and also taking advantage of qSecure's ability to use multiple redundant backend data stores.
- Apply consistent corporate cryptographic management policy using the comprehensive object and usage policies provided by qCrypt-xStream.
- Maintain a centralized view of cryptographic key and file access, and thus provide a more detailed and complete audit log of information access across the organization.

The combination of qCrypt-xStream, qSecure, and QuintessenceLabs professional services will enable the client to satisfy its internal customers, auditors, regulators, and internal security team, while reducing operating costs and improving user experience. The ability to integrate the very best key generation, key management and cryptographic policy control with legacy systems and cloud service offerings demonstrated to the client that it could rely on QuintessenceLabs to provide powerful, secure and cost effective products and services.



## QuintessenceLabs – the Global Leader in Quantum Security

QuintessenceLabs' portfolio of modular products addresses the most difficult security challenges, helping implement robust security strategies to protect data today and in the future.

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