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Top Global Bank Streamlines Governance of All Critical Data Types from 100+ Sources, Growing to 40+ Petabytes

A leading multinational investment bank with offices worldwide was challenged by ever-evolving customer needs, a complex regulatory landscape and increasing cybersecurity threats. The bank needed to accelerate the modernization of its IT environment to enhance client, employee, and developer experiences. Archive360's unified data governance platform enables them to reduce data administrative, storage, and processing costs, improve operational system performance, and assure legal and regulatory compliance.

Challenges

Financial Services is one of the most regulated industries in the world, so the bank's journey to the cloud was extremely complex and needed to ensure compliance with regulatory rules. One of the bank's primary concerns was the management of its data. Over time, the bank developed homegrown, on-premises record archives for enterprise application data. The IT department was spending too much time, and too many resources supporting these applications for 250 business units. Every discovery or audit request, classification or policy change required IT assistance. The amount of data subject to legal, regulatory, and business retention requirements represented the third largest repository of data in the firm at over six (6) petabytes. Archive data includes system logs and risk calculations to support record transactions, financial records, account statements, legal agreements and contracts, employee training and certifications, customer service requests, and many other documents generated during business activities. Each of these pieces of information have stringent retention rules and some contain highly sensitive information. Given the rate of data growth in its production systems, including its enterprise content management systems that capture and store high volumes of reports and

statements from production systems, the bank anticipated needing an archive that could scale to over forty petabytes. The bank's data governance platform not only needed to scale, the sensitive nature of financial information and proprietary risk calculations meant it also needed to meet SEC public cloud requirements for highly restricted data.

The bank's digital transformation strategy to leverage the cloud to drive client- and business-centric innovation provided a great opportunity to rethink how it governed this data. The bank reviewed many solutions and only Archive360, deployed on Microsoft Azure, could meet its scalability and stringent security requirements.

Opportunity

Instead of relying on IT administrators and application controls to manage data access, the bank wanted to implement a common data framework and governance platform that enables auditors, record managers, legal, compliance, data engineers and business analysts to search, retrieve, securely manage, analyze, and dispose of records directly.

Opportunity (continued)

The framework enables consistent data naming, structures, and standards. The governance platform directly applies the framework, storage, retention, and access policies to data from systems across the organization to ensure data risks and costs are automatically and consistently tracked and managed.

As data ages, its value decreases, while risks associated with a data breach, data modification, deletion or exposure, regulatory fines, and appearing in headlines for the wrong reasons increase. To mitigate these risks and reduce the storage and performance costs of having large data volumes in its production environment, the bank wanted to be able to retire data from its operational systems to a more cost-effective, secure platform where it can be retained and managed for discovery, mined for its value, and disposed according to its policies.

What convinced the bank on Archive360's Unified Data Governance Platform and Microsoft Azure was their unmatched ability to secure their highly sensitive data in the region it was created. The rise of data sovereignty laws to keep data impacting a country's national interests, such as citizen, infrastructure, and financial market data, within its borders was another important driver to cloud-based storage.

Security Requirements

- Control over cloud infrastructure security configuration.
- Control over data encryption keys.
- Ability to encrypt data on-premises before moving it to the cloud.
- Manage encryption keys on-premises apart from data in the cloud.
- Hide or mask specific data from users through classification-based encryption at the field level.

Opportunity (continued)

The Archive360 platform can seamlessly integrate with the bank's security programs, including its preferred applications for monitoring, vulnerability scanning, and logging. By archiving inactive and sensitive data from its operational systems to the Archive360 platform, the bank ensures users receive only the access they need according to role-, attribute-, and data classification-based access controls that can be very precise and dynamic. For example, a person can be entitled access to review non-sensitive data associated with a case only while that case is active. By encrypting the data and controlling and maintaining its encryption keys on-premises apart from the encrypted data in the cloud platform, the bank is assured the highest levels of data security, and any third-party requests for its data would need to be made directly to the bank. Financial institutions face relentless and sophisticated cyber threats. The bank had to ensure complete control over its data, even if the requests relate to criminal investigations or regulatory audits.

Benefits

- Scalability – process and store:
 - **100+** apps & file shares
 - **6+** PBs scaling to **40+** PBs
 - **2+** Billion objects
- Security and control:
 - Security configuration
 - Encryption keys – managed/stored apart from data in cloud
 - Data concealment – data removal or masking at field level
 - Data portability – no vendor data extraction fees
- Improved compliance
 - Consistent data governance across all systems
- Greater productivity
 - Centralized management / access control
 - Secure employee self-service
 - One search across multiple systems and petabytes of data
 - Faster searches via unique class-driven indexing
- Improved operational system performance by archiving data
- Lower costs

Results

Over a five-year period, the amount of data stored in the Archive360 platform is projected to grow to over 40 petabytes. To date, the bank has onboarded over 2 billion objects and is managing well over six petabytes of data. The data comes from over one hundred applications and systems across the organization. The Archive360 platform is being rolled out to collect data from applications and systems in five regions worldwide. Each application, system, and record class has its own governance policies, schema and search requirements providing granular control over record storage, search performance, access, retention, and disposition according to the bank's recordkeeping requirements. The data sources include:

- *Enterprise content management systems* – These systems manage the overall process of document creation, review, and access. Much of the content are reports regularly generated by applications and transactional systems, such as monthly account statements. These documents are automatically moved to Archive360's platform based on policies such as when they are no longer regularly accessed.
- *System logs* – These logs, used to track system activity and support audit requirements, are continually generated and archived in large volumes.

- *File systems* – containing M&A records, financial records, legal agreements, etc.
- *Bulk files* – former employee laptops, SharePoint sites, etc.
- *Event-based systems* – customer/employee support tickets, employee training and certification, etc.
- *Database extracts*

By centralizing data compliance oversight and providing classification-driven data controls, Archive360's platform provides the bank with broad capabilities to retire data from its operational systems, securely access archived information, while consistently enforcing data retention, usage, and disposition in accordance with its legal, regulatory, and business requirements, saving IT significant administrative and data storage costs, and improving its operational system performance.

As artificial intelligence (AI) and machine learning (ML) become more embedded in the bank's business, Archive360's platform provides a repository for aging AI and analytics workloads to provide further operational efficiency and cost savings as well as a trusted source of governed data for analysis and to help build and train its models.

Conclusion

This case study showcases how a top global investment bank transformed the way it manages its data to meet ever-changing client, employee, business, and regulatory requirements.

By implementing a centralized, cloud-based data governance strategy and the Archive360 Unified Data Governance platform, the bank is not only streamlining the management of its

critical data but is also well-positioned to leverage its archived data, analytics, and AI/ML tools to compliantly empower industry innovation.

About Archive360

Archive360 is the unified data governance company transforming how organizations identify, collect, manage, and act on their data. Businesses and government agencies worldwide rely on the security, scalability, and scope of our cloud-native platform to address their increasing data governance obligations across growing volumes of disparate data. With Archive360, our customers are eliminating data

silos, securing data access, increasing data insights, while reducing cost and risk. Archive360 is a global organization that delivers its solutions both directly and through a worldwide network of partners. Archive360 is a Microsoft Cloud Solution Provider, and the Archive2AzureTMSolution is Microsoft Azure Certified. To learn more, please visit www.archive360.com.



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