

Enterprise Archiving in the Cloud

A new way to manage your enterprise data



Data Growth Crisis

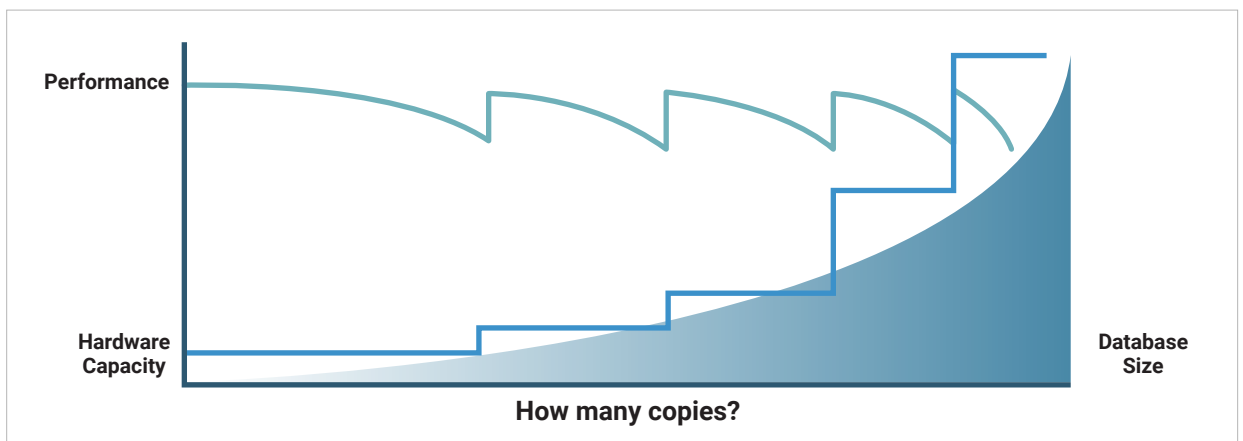
Everyone knows that the more data, the bigger the job, and when production servers are swamped with too much data, bad things can happen.

Large data sets degrade the performance of OLTP databases, file servers and email systems. Batch jobs run slower and data replication and disaster recovery are problematic because moving large amounts of data is a challenge in itself. Data security, risk and compliance challenges grow with the data, and system availability is affected as larger databases require longer periods of scheduled downtime for routine maintenance and upgrades.

And data growth is accelerating with unstructured data now making up over 80% of all enterprise data and growing at an extreme rate up to 65% per year, much faster than structured data.¹ Data growth is a core driver of IT cost, and for many has become the leading data center challenge driving ever expanding infrastructure requirements and stripping entire data centers of cooling and power capacity.

“ While all the top data center hardware infrastructure challenges impact cost to some degree, data growth is particularly associated with increased costs relative to hardware, software, associated maintenance, administration and services.”

— April Adams, research director at Gartner.



Information Lifecycle Management

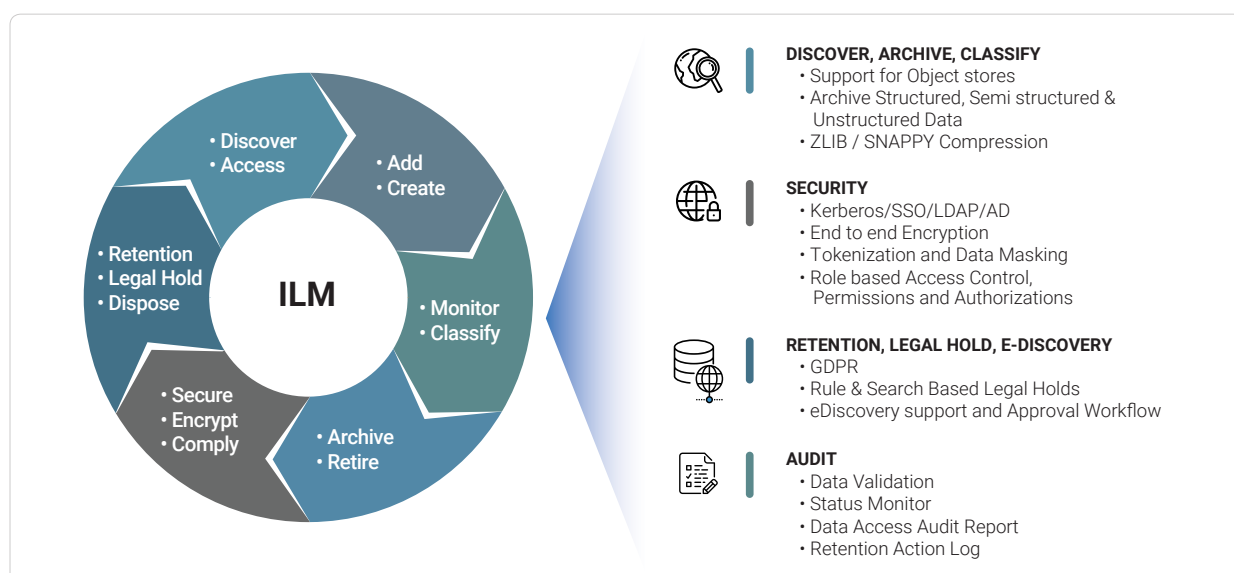
Data is the lifeblood of any organization, and Information Lifecycle Management (ILM) is recognized as a best practice for managing and governing data across the enterprise. Too much data slows application performance and creates data governance challenges. Lack of data leads to poor decision making and missed business results. It is the job of ILM to manage data growth and provide a framework for data governance and compliance.

ILM manages data throughout its lifecycle with the goal to improve enterprise application performance, strengthen data governance and reduce infrastructure costs. ILM processes archive production data based on retention policies and business rules to optimize infrastructure and establish a compliance framework.

Industry analysts point out that up to 80% of data is not current, and that the value of data declines dramatically over time. ILM discovers and classifies data at creation and ensures that only current, active data is deployed on expensive tier-one infrastructure and that inactive data is safely archived.

ILM delivers business value in five ways:

- Improve application performance
- Reduce storage costs
- Optimize infrastructure - Align system performance and service levels to business goals
- Data governance - Policy/rules driven security, risk and compliance for enterprise data
- Improved system availability - Reduce backup and recovery times, and outage windows from data upgrades.



Why Archive in the Cloud?

Cloud archiving reduces the cost and complexity of archiving projects and helps IT organizations meet SLAs and improve the performance of enterprise applications. Small, medium and even large enterprises are challenged to manage the risk and complexity of storing vital information. For these organizations cloud archiving is a safe, fast and easy solution to data growth and compliance challenges.

Archive-as-a-service key features:

- Pay-as-you-go
- On-demand, scalable & elastic
- Improve application performance
- Data governance & Audit
- Powerful data discovery with text search, structured reporting and ad-hoc query
- API access.
- Secure & compliant
- Low cost, bulk storage
- Metadata repository
- ILM

Pay as-you-go

Archiving as-a-service ensures software and infrastructure costs are aligned with consumption and demand. Elastic infrastructure pricing make costs manageable and predictable. Users pay only for what they use, and the monthly service may be dialed up or down as the project priorities or business conditions change.

Archive as-a-service projects are less complex because there is no software. And there is no infrastructure or costly upgrades either. Users are charged a monthly service fee based on their service scope in addition to a per terabyte and per user charge to archive and retrieve data.

SOLIXCloud Enterprise Archiving

SOLIXCloud Enterprise Archiving provides an ILM solution framework to archive your enterprise data as-a-service. The solution suite includes four applications including Email Archiving, File Archiving, Database Archiving and Application Retirement.



Database Archiving

Active database archiving helps IT organizations meet SLAs, reduce costs, and improve the performance of enterprise applications. Maintenance and overhead costs are reduced, and IT organizations are better able to leverage their existing investments in database technology and storage.

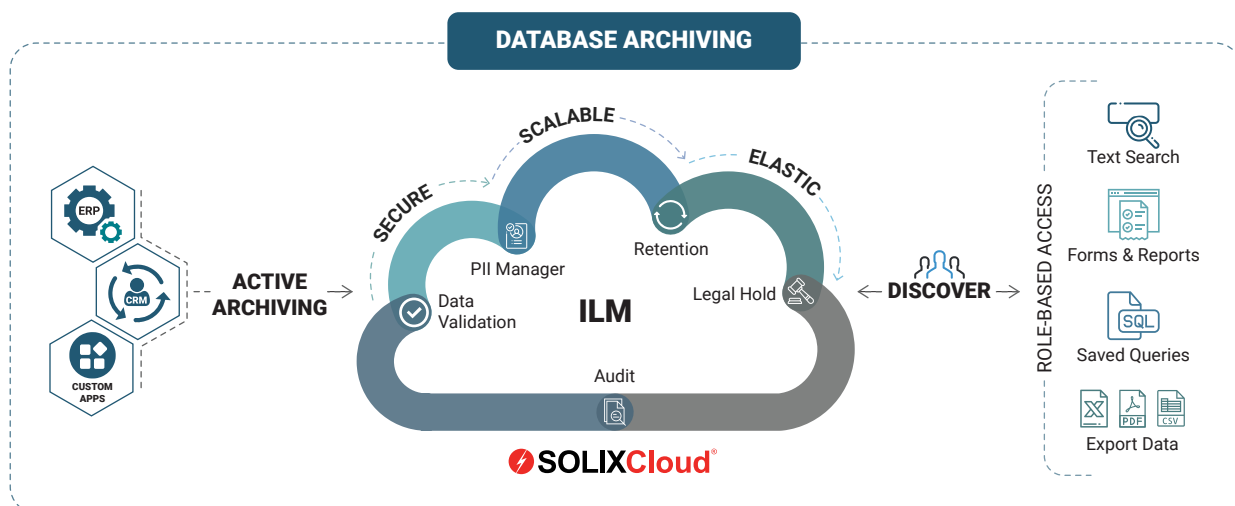
SOLIXCloud Database Archiving manages data as complete business objects which are snapshots of business transactions. Complete business objects include not only transaction level details, but also metadata or “information about the information.” For example, an invoice must not only include line items, but also customer name, account number and payment terms.

Enterprise Archiving also supports the more traditional table to table approach with master data synchronization (where the business objects can be defined in the archive itself). This approach also enables running of existing sql code against the data model that is the same as the source that it came from.

Archive data is moved (COPY/PURGE/VALIDATE) from the source database according to ILM policies and rules. For instance, all archived invoices must be 18 months old as well as posted and remitted in full. Complete business objects require that related reference and master information all be archived together.

Key Features:

- Improve application performance
- Data validation
- Meet compliance requirements
- Policy based retention management
- Metadata management
- Discover & Secure PII
- Table to table archive
- Purge data at source
- Self-service data access powered by Search
- E-discovery with Legal hold
- Role-based access



Application Retirement

Obsolete, duplicate, and unused applications that remain running in many data centers are a big drain on IT budgets, and retiring these applications can pay tremendous dividends by freeing data center space and staff, reducing license and maintenance fees, and lowering power costs. Many data center consolidation projects have been launched with application portfolio rationalization as the underlying strategy.

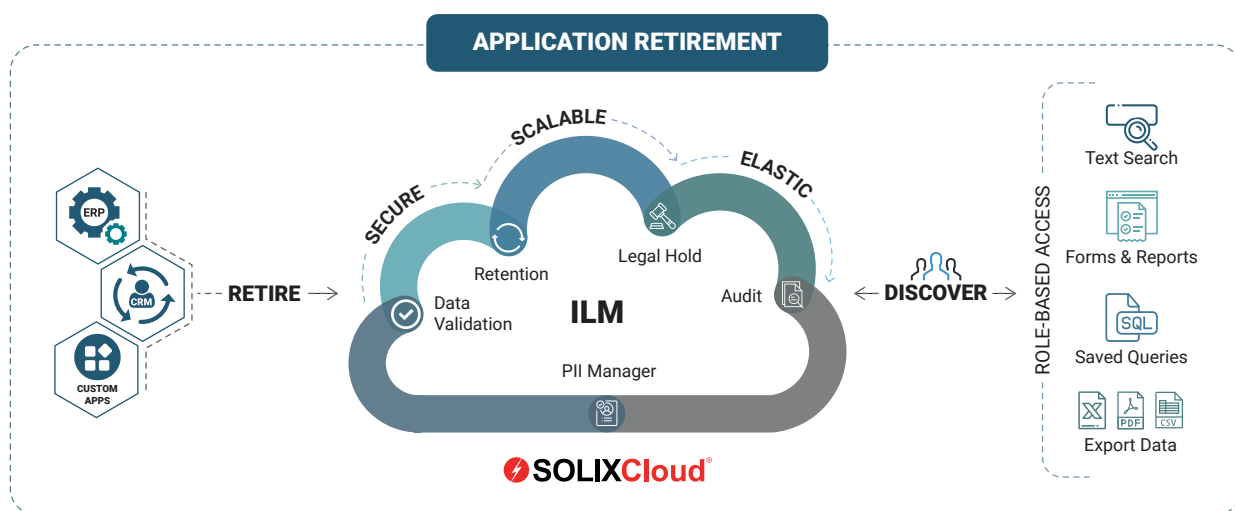
As enterprise applications are migrated to the cloud, an important consideration is, “what happens to the old system?” Proper retirement and decommissioning of obsolete enterprise applications and data is an essential business control. Gartner estimates that 10% of applications running in an un-optimized portfolio are candidates for retirement and an additional one-third should be migrated or rationalized.

SOLIXCloud Application Retirement decommissions enterprise software applications, deduplicates and archives the data with metadata context, compresses the data as much as 90%, and then stores it in an immutable format that may be text searched or queried by ad hoc or structured report. With the infrastructure and application now retired, the original data is available unchanged to meet compliance requirements

Candidates for application retirement are not hard to find. The most obvious are obsolete applications that are no longer delivering business value or have been replaced, but not yet shut down. Applications with duplicate functionality acquired through mergers and acquisitions are also good candidates for decommissioning. Application portfolio rationalization reduces the expense of licensing, managing and supporting legacy applications and offers a major savings opportunity for tight IT operating budgets.

Key Features:

- Decommission obsolete software applications
- Meet compliance requirements
- Policy based retention management
- Metadata management
- Discover & Secure PII
- Reduce license and maintenance expense
- Self-service data access powered by Search
- E-discovery with Legal hold
- Role-based access
- Enterprise Business Records



Email Archiving

SOLIXCloud Email Archiving provides a cloud based archive for all email data to curb the rampant growth, cost, and risk of mismanaged corporate email and to ensure compliance with the most demanding business and legal requirements.

ILM controls manage the data throughout its lifecycle, and an original copy of every email is created in a separate, immutable storage container for long term retention and preservation. Email Archiving provides a cloud-based, indexed archive separate from the production system that supports text search, auditing, permissions and legal hold to preserve email until the litigation hold expires or is removed.

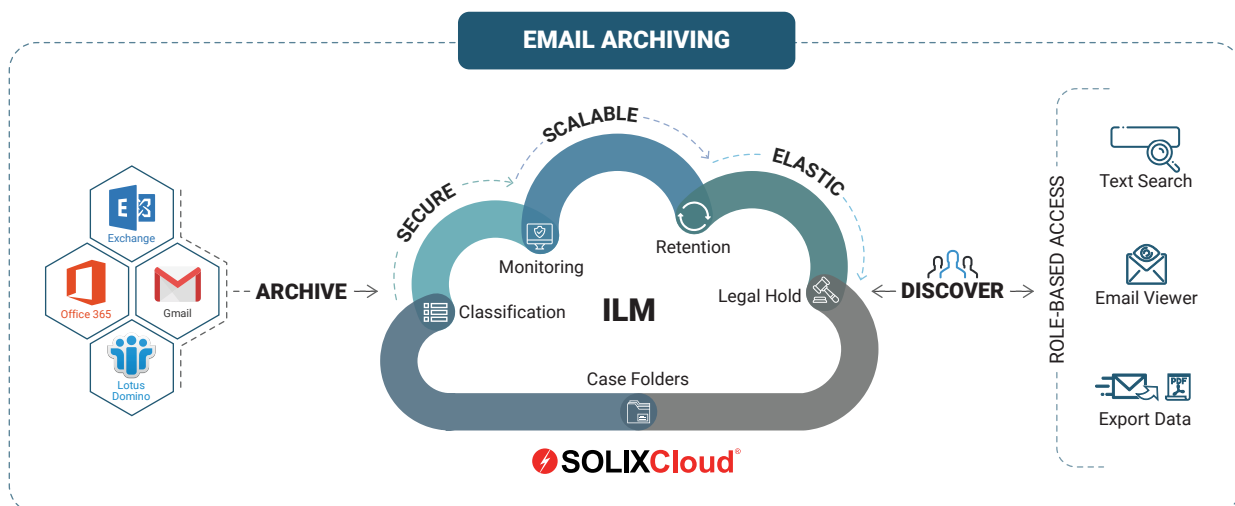
Cloud email archiving is well-suited for small to medium sized businesses and features ease of use, flexible plans and low cost, bulk data storage. Compatibility with all popular email solutions including Office 365, Microsoft Exchange, Notes, Google Mail, and other such popular environments

Optimize your email system performance while allowing users to work as they always have, retrieving archived messages from Microsoft Outlook with full fidelity in a single click.



Key Features:

- Journaling and file imports
- Case Folder
- Classification / Tagging
- Retention & Legal hold
- Text search and retrieval
- Monitoring
- Advance multi-criteria based search
- Export



File Archiving

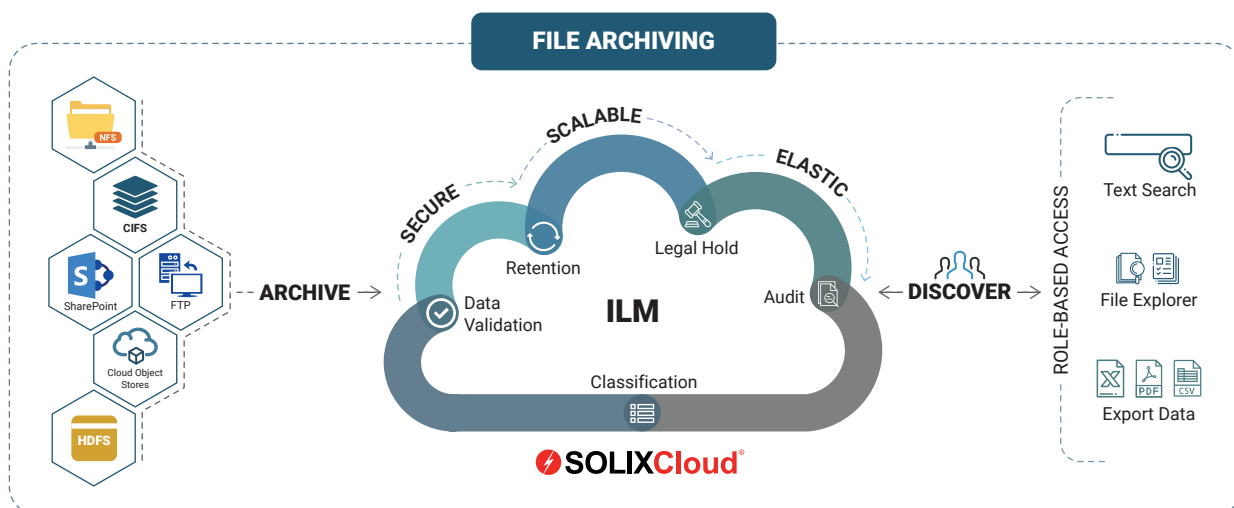
File shares deployed all the way down to the departmental level are critical to any business, yet too often become disjointed islands of information across the enterprise, neither well managed nor properly maintained. Security, risk and compliance concerns abound as more and more file shares are deployed across the enterprise. Businesses are under immense pressure to keep accurate accounts of their business documents, for legal and compliance purposes alike.

SOLIXCloud File Archiving provides enterprise scale data collection and powerful data discovery to find and retrieve files quickly and easily. Text search to retrieve a wide range of file formats including documents, images, videos, and .pdf.

Storage space savings may be achieved up to 80% because deduplication means only one copy of the data is being stored and then compressed in an archive file up to 90%. File level controls support legal hold and stubbing to manage exception handling conditions.

Key Features:

- Full Text Search
- Export
- Retention management and legal hold - Can be placed on a file, and subsequently applied to all newly-created versions of that document.
- Azure Databox support for massive data migration
- File Explorer
- Versioning



Data Discovery

Data Discovery includes a workbench of tools for authorized enterprise users and BI applications for information retrieval. It offers custom capabilities to meet the unique data retrieval needs of structured and unstructured data.

Features include:

Text Search

This simple yet amazingly powerful feature allows business users access to data through a familiar search box interface. Users need not have any prior knowledge of data models and are not required to build any queries.

Query Builder

For use cases that require fixed format report to be run by multiple users on a repeated basis, Solix provides an intuitive query builder. Queries can be built, saved and reused using a graphical interface without having to know how to write SQL. It also provides the ability to apply a variety of formatting options to report output. The report can be outputted directly as an excel or PDF file.

Custom Forms and Reports

Provides the ability to create forms and reports, which are similar to the original application from where data was archived/retired. This creates a familiar environment for business users, thus eliminating any inertia from business users over implementing data archiving or application retirement initiatives.

Security and Compliance

SOLIXCloud partners with Microsoft Azure to help clients meet a broad set of international and industry-specific compliance standards such as GDPR, ISO 27001, HIPAA, SOC 1, and SOC 2. Data sovereignty is also supported as SOLIXCloud data may be stored across geographic locations in localized containers.

Application and data security includes:

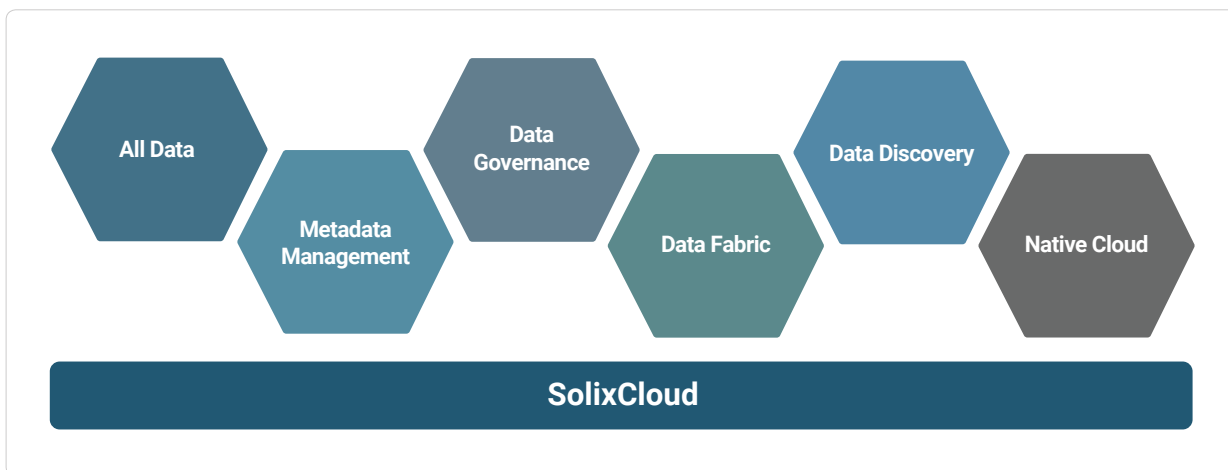
- AES-256 encryption
- All passwords hashed
- Third party penetration testing
- Full access audit trail
- Access to private information is restricted to authorized personnel only according to documented processes
- Systems access logged and tracked for auditing purposes
- Support-ticket history available for review
- System installation using hardened, patched operating systems
- System patching to provide ongoing protection from exploits
- Dedicated firewall and VPN services to help block unauthorized system access
- Data protection with managed backup solutions
- Distributed Denial of Service (DDoS) mitigation

End-to-end solution

SOLIXCloud Enterprise Archiving is an end-to-end solution including the complex data fabric connecting disparate data sources with target data stores. Data is archived as-a-service from production systems based on ILM retention plans and controls.

Data governance policies are enforced by ILM and data security rules to properly protect the data.

Critical data governance, data security, and compliance policies are managed centrally throughout the entire data life cycle. A centralized metadata repository enables policy-driven controls and retention plans to ensure data is safely integrated, accessed, shared, linked, analyzed and maintained to the best effect across the organization. The goal is to enable proper and secure data access for text searches, forms, reports, queries, visualizations, analytics and AI/ ML applications.



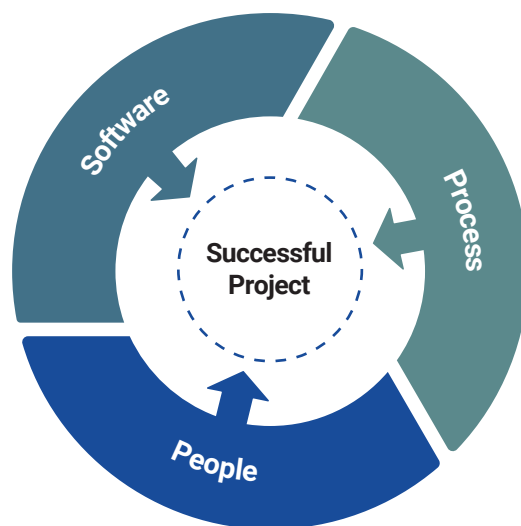
Backed by Solix's Professional Services

Solix offers an array of modern data management products and customized professional services to help organizations implement solutions successfully. Our services combine the best of People, Process, and Software to help organizations realize ROI quickly at each step of their project. Lean on Solix experts and benefit from their combined experience of implementing some of the most complex and largest data management projects ever.

QuickStart Services

Solix Professional Services team will collaborate closely with your team to get your archiving projects off to a quick and successful start. Scope of QuickStart services include:

- Assist your team in designing and implementing SDLC for your archiving projects
- Assist Customer infrastructure & security team to configure Solix CDP authentication using LDAP, AD or SSO
- Perform readiness test / assessment
- Build documentation



Application Retirement Services

Let the archiving experts retire/decommission your application. Solix offers expert application retirement services at a simplified fixed pricing per application (with a supported connector). For the services, you will have the option to choose between the Solix Application Retirement Factory Team or a dedicated team. The application retirement services include:

- Setup
- Migration
- Validation
- Data access

Active Archiving Services

Utilize Solix active archiving service to maintain your production application database in peak condition while meeting the information access needs and data retention policies of your organization. Solix will help implement an archiving strategy that fits your data life cycle policy while achieving improved application performance, reduced maintenance and infrastructure costs. Active archiving services include:

- Initial implementation
- Set-up initial archiving policy
- On-going archiving (monthly or quarterly)

Solix Training and Certification

If you are an organization that believes in self-sufficiency, then we have the right program for you. Solix training and certification program is designed to empower organizations such as yours to build self-sufficiency with data archiving using SolixCloud. The following courses can be taken by your customer application teams based on their roles.

- Archiving Implementation (5 Days)
- Implementation of Active archiving and Application Retirement
- Data Access (5 Days)
- Access to archived data through EBRs, search, forms and reports
- Administrator (5 days)
- Administration of users, roles, privileges and more.

The course can be delivered at a Solix location, your office or Online.

Support

SolixCloud is supported by Solix's experienced customer support teams. Customers can log and track their support ticket activity at www.solixcloud.com/support

Summary

Data growth has emerged as the biggest data center and infrastructure challenge. As more and more data is processed, infrastructure performance is impacted.

Archiving inactive data improves the performance of enterprise applications, manages compliance requirements and reduces infrastructure cost and complexity. SOLIXCloud is an end-to-end ILM solution for enterprise data management challenges

While transactional systems like ERP, CRM and HR are mission critical for every business, up to 80 percent of all enterprise information is stored on email and file servers. Taken together, this data represents the transactional history of the entire organization. SOLIXCloud Enterprise Archiving manages enterprise data throughout its entire life-cycle and provides best practice data governance and information security for this most invaluable business asset.

Footnotes:

¹ <https://www.datamation.com/big-data/structured-vs-unstructured-data.html>