

Charting the Digital Odyssey

Data Dynamics UDM Software – Strengthening Data Security and Resiliency

Data is the cornerstone of modern business operations, and its loss or unavailability can result in catastrophic consequences. These repercussions extend well beyond financial losses and may encompass damage to reputation, erosion of customer trust, regulatory non-compliance, and even legal liabilities. This is where data security and resilience come into play as crucial safeguards. It transcends mere data storage and backup, encompassing a comprehensive approach to data that addresses visibility, availability, protection, governance, and integrity.

Data Dynamics' Unified Data Management software is a comprehensive solution designed to prioritize data resiliency. With a central focus on strengthening, overseeing, and ensuring the availability of invaluable data assets, our software empowers organizations to fortify their data management strategies. It allows organizations to extract maximum insights from their data while upholding the highest data security and governance standards.

Data Dynamics' Expertise in Data Management

Data Dynamics is your trusted partner in unified data management, where data security, resiliency, compliance, and migration are seamlessly woven together. With over a decade of industry expertise, Data Dynamics has been at the forefront of harnessing and rationalizing data to address pressing needs for its clients, including 28 Fortune 100 companies. At the heart of our solution lies the award-winning Unified Data Management Software powered by cutting-edge AI/ML technologies. Featuring four key modules—Data Analytics, Mobility, Security, and Compliance—this software not only

reveals intricate insights into unstructured data but also creates a robust data security and governance ecosystem equipped with features for sensitive data discovery, classification, remediation, and immutable audit logging.

Bid adieu to isolated data perspectives and fragmented point solutions and embrace a unified software that skillfully structures unstructured data, unlock profound insights, fortifies security, ensures unwavering compliance, and ushers in a new era where data evolves into an invaluable asset for organizations.

Our Data Security and Resiliency Software Is Designed To:



Safeguard data against a wide range of threats.



Meet regulatory and compliance requirements.



Optimize data storage and management for resiliency.



Empower organizations to confidently protect their data.



Simplify data management across heterogeneous environments.

SOLUTION OVERVIEW

Our exclusive six-tier approach offers Data Dynamics a meticulously organized and enhanced perspective on your data, unlocking its full potential as a valuable business asset. This process enhances your data's reliability and security and strengthens its resilience in the face of challenges.



Data Availability

- **Data Discover & Cataloging:** Discover, catalog, and analyze all data types across on-premises, cloud, and hybrid environments, enabling informed data management through comprehensive data visibility and insights.
- **Metadata Analytics:** Metadata discovery, classification, and tagging for data lifecycle management and usage pattern analysis, reducing data sprawl, consolidating data lakes, and optimizing storage resources.
- **Archive Policies:** Streamline data movement with flexible archive policies, making the seamless transition of unstructured data.
- **File Preservation:** Safeguard original content by effortlessly converting archived files into object format, preserving data integrity.
- **Efficient Data Retrieval:** Retrieve data easily, whether through the software or RESTful API, from object resources, ensuring quick access when needed.
- **Search and Discovery:** Simplify audit and legal discovery with user-friendly search and file-saving features, improving efficiency and compliance.

- **S3-Compliant Access:** Access object files conveniently using S3-compliant browsers or custom applications via REST APIs, ensuring compatibility and ease of use.

Data Integrity

- **Content Analytics:** Content Analytics powered by a Data Science Engine, AI/ML, and NLP for accurate discovery and classification of data according to its sensitivity, consumer information, business value, and other criteria.
- **Context Analytics:** Utilize machine learning for contextual analysis of unstructured data, considering content, structure, and data relationships. Get deeper insights, enhancing decision-making and user experiences.

Data Accessibility

- **Access Control and file re-permissioning:** Implement policy-based and robust file permissions management, including preserving, re-permissioning, and security reassignments via SID Mapping.
- **Open Share Reporting:** Identify sensitive data within open shares and rectify permissions accordingly.

Data Security

- **Risk Exposure Insights:** Generate actionable insights using multi-level logical expressions and operators and risk exposure identification through descriptive and diagnostic analytics.
- **Risk Remediation:** Quarantine high-risk sensitive data in secure storage, such as file shares on storage resources or object storage buckets, enhancing data security.
- **Secure Data Sharing:** Enable secure data sharing in data lakes and pipelines with appropriate access controls to maintain data confidentiality and privacy compliance.

Data Governance

- **Data Mapping:** Perform scans to identify personal data files, creating an inventory of processed, collected, stored, and shared data.
- **Classification:** Employ industry-standard compliance and governance templates to classify data based on regulatory guidelines, ensuring adherence to standards.

SOLUTION OVERVIEW

- **Immutable Audit Log:** Leverages blockchain technology to create immutable audit logs for data access activities, ensuring reliable governance reports for compliance.
- **Data Tagging:** Establish file and folder tagging and security protocols to protect personal data.

Data Migration

- **Data Identification, Classification, and Location Mapping:** Accurate identification, classification, and mapping of physical and virtual data locations. Manage transaction files and their location and destination.
- **Policy-Based Data Migration:** Policy-driven automated data movement, including migration, replication, transform & sync, and archiving across various platforms, both on-premises and in the cloud – Azure, OneDrive, GCP, AWS, etc (File to File, File to Object, Object to Object).
- **Integrated Risk Controls:** Safeguard and remediate sensitive data and ensure regulatory compliance by seamlessly integrating risk controls across file and object platforms.
- **Intelligent Tiering and Placement:** Dynamically allocate resources and data storage to optimize performance based on usage patterns and requirements.
- **Scalability and Performance:** Manage a high volume of policies and data files, serving data science, cloud, and governance teams for secure and reliable data management.
- **Dedicated Migration Factory:** Allow users to design, build, deploy, report, and audit data migrations with their dedicated engineering team for a seamless data migration process.
- **Post Migration Testing, Optimization, and Data Retention:** Post-migration analysis, audit log examination, defining retention and deletion criteria, and establishing data lifecycle policies.

SUCCESS STORIES



- A Fortune 500 multinational healthcare company utilized Data Dynamics' unified data management software for data sharing, marketplace rationalization, and risk mitigation involving hundreds of billions of data files through AI and ML.
[Read the Case Study →](#)
- A Fortune 50 U.S. bank fortified data privacy and security by optimizing 80 billion files with Data Dynamics, safeguarding customer privacy and mitigating data exposure risks.
[Read the Case Study →](#)
- Fortune 50 multinational automotive company analyzes, minimizes, and archives 3+ petabytes of unstructured data using Unified Data Management Software.
[Read the Case Study →](#)
- A Fortune 50 bank discovers and remediates 21K files with sensitive data from 3M files scanned for efficient risk management and compliance.
[Read the Case Study →](#)

Data Dynamics is dedicated to empowering organizations to harness the full potential of their enterprise data, ensuring data security and resiliency. We provide the technology, expertise, and support needed to navigate the complexities of modern data environments and drive business success.

Contact us to learn how we can transform your data management strategy and empower your organization to thrive in the digital age.

For more information, call us at **(713)-491-4298** or visit the website at www.datadynamicsinc.com