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The Controlled Data Factory™

Enterprise Data Management in the Age of AI, Zero Trust, and Quantum Risk

Prepared by Data Center Assistance Group, LLC

Executive Summary

- Why enterprise data management must evolve.
- Risks of unmanaged and unclassified data.
- Business, legal, and fiduciary implications.
- Strategic benefits of implementing a Controlled Data Factory.

The Current Problem

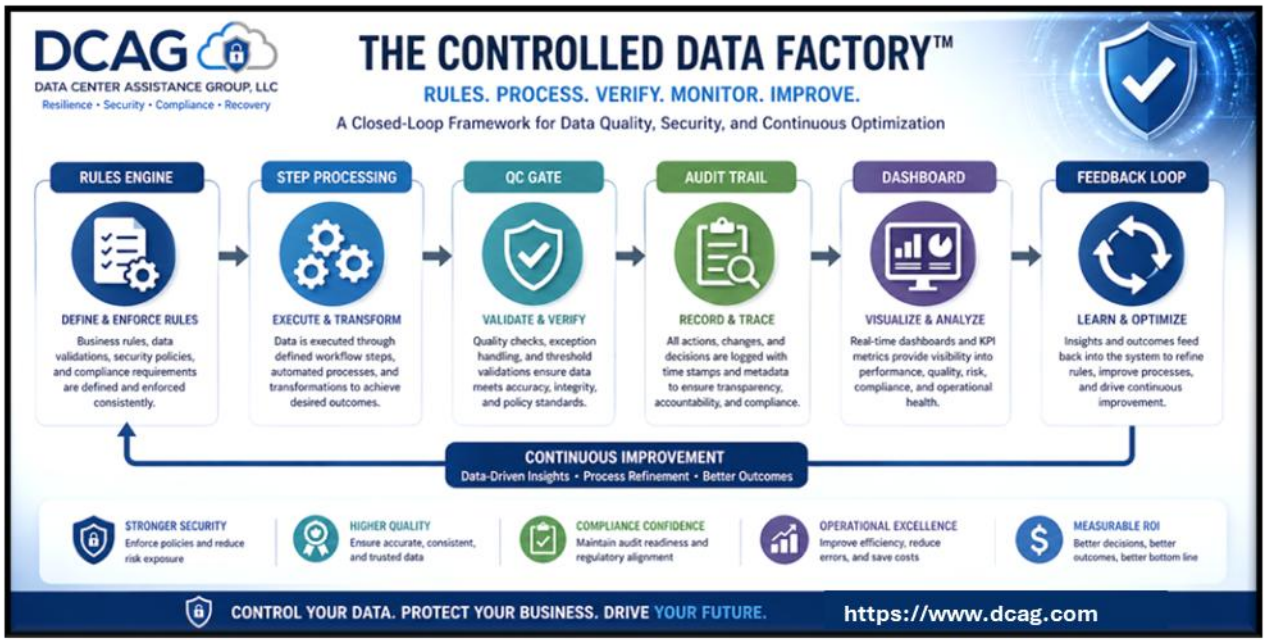
- Data sprawl and unknown ownership.
- Inconsistent retention and weak access controls.
- Insufficient backup/recovery and immutable evidence.
- No AI or PQC preparedness.

The Controlled Data Factory Lifecycle

The Controlled Data Factory sequence of events

This illustration depicts the sequence of events associated with data management within a corporation that achieves data sensitivity, data access controls, data security, backup/recovery, and compliance. This automated process can be included in the Controlled Application Factory system DCAG has designed.

The Controlled Data Factory within the Controlled Application Factory



His illustration shows how a continuous improvement loop can be used to optimize data protection. This process is utilized in the Controlled Application Factory (CAF) designed by DCAG.

Governance / Security / Compliance Overlay

- NIST, ISO 27001, HIPAA, GDPR, SEC, IRS alignment.

Cyber Resilience and Recovery

- Immutable backups, air-gapped vaulting, ransomware mitigation.
- Checkpoint recovery and RTO/RPO/MTD.

Data Supply Chain / AI Governance

- Data lineage, provenance, AI poisoning protection, AI Trust Score.

Quantum Risk / CBOM

- Harvest Now Decrypt Later risk.
- CBOM discovery and PQC migration roadmap.

Executive Dashboards / KPIs

- % classified, % encrypted, backup success, recovery success, ownership coverage, risk heat map.

ROI / Business Benefits

- Reduced downtime, faster audits, fewer findings, reduced labor, improved recoverability.

DCAG Call to Action

- Assessments, governance frameworks, implementation, dashboards, and recovery certification.
- Contact us to discuss your needs and how we can assist you achieve a controlled, secure, compliant, and optimized application development process to accomplish the best systems available to support your business products and services.

Contact

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