

Data Cosmos_Data Governance Nexus

Enterprise-Grade AI-Enabled Data Governance Solution

Part of the Coforge Data Cosmos™ Platform | Nebula™ Portfolio

Coforge Limited | Data HBU

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Solution Overview

Data Cosmos_Data Governance Nexus (DG Nexus) is Coforge's enterprise-grade governance platform that provides complete visibility and control over organizational data across databases, cloud warehouses, and business services. The platform enables organizations to automatically detect sensitive data, enforce compliance policies, provide end-to-end data lineage, and establish clear data ownership — ensuring governance is automated, compliant, and innovation-ready.

As enterprises scale their data estates across cloud warehouses, data lakes, and SaaS platforms, governance becomes exponentially harder. Sensitive data spreads undetected, compliance policies are enforced inconsistently, data ownership is unclear, and lineage is invisible — creating regulatory exposure and eroding trust in data-driven decisions. DG Nexus solves this by providing a unified governance control plane that automates classification, enforces policy-as-code, tracks lineage end-to-end, certifies trusted datasets, and enables secure self-service data access — all through a single, intuitive platform.

Key Features

Feature	Description
Home Screen & Global Search	Central hub for data discovery with activity feeds, data asset overviews, and global search to discover datasets and identify where data resides across the enterprise
Governance Dashboard	Unified view for CDO/CRO with insights into documentation status, ownership visibility, classification coverage, and governance gaps for risk prioritization
Notifications & Approval Workflow	Data Stewards review change requests, approve or reject updates, and maintain continuous governance control through structured workflows
Auto-Tagging & Classification	Automatically tags sensitive fields (email, phone, SSN) as PII/Sensitive Data, eliminating manual classification and enabling consistent policy enforcement
Policy-as-Code Management	Rule-based governance policies applied automatically to tagged data with role-based access control for Risk & Compliance teams and Data Stewards
End-to-End Data Lineage	Track data from source to consumption, visualize pipelines and transformations, understand dependencies — supporting audit readiness and impact analysis
Ownership & Certification	Assign Data Owners and Stewards with clear accountability. Certify datasets as Gold (trusted source) for business confidence
Data Quality Management	Continuous monitoring with validation rules, quality scoring, and proactive alerts on rule failures for early issue detection
Data Masking & Security	Protect sensitive fields through masking, providing governed views for analysts while restricting raw data access
Data Discovery for End Users	Glossary-based and search-driven access to certified, governed datasets with masked sensitive fields and governed views

Benefits

Benefit	Description
Automate Governance	Reduce manual effort with auto-tagging and policy enforcement
Ensure Compliance	Enforce regulatory and internal policies consistently across all data assets
Enhance Transparency	Complete lineage and ownership visibility for every dataset
Build Data Trust	Deliver certified, high-quality datasets that business users can rely on
Enable Secure Access	Allow users to work with governed, masked data without compromising security

Industry Applications

Banking & Financial Services

Use Case	Example
Regulatory Data Governance	A Tier-1 bank deploys DG Nexus to govern data across 50+ databases feeding regulatory reports (BCBS 239, CCAR, DFAST). Auto-tagging identifies PII across customer, transaction, and account data. Policy-as-code enforces access restrictions — compliance analysts access governed views while sensitive fields remain masked. End-to-end lineage provides audit trails from source to regulatory reports, satisfying OCC and Fed examination requirements. The governance dashboard gives the CRO real-time visibility into documentation gaps.
AML/KYC Data Governance	DG Nexus governs customer onboarding data with automated PII classification, beneficial ownership lineage tracking, and policy-enforced access controls for AML investigation teams.

Insurance

Use Case	Example
Policyholder Data Governance	An insurer deploys DG Nexus to govern policyholder data across policy admin, claims, and billing systems. Auto-tagging identifies sensitive PII (SSN, DOB, medical info). Data ownership is defined — policy admin owns customer master, claims team owns loss data. Gold certification ensures actuarial teams use trusted datasets for reserves. Lineage supports Solvency II evidence requirements.
Claims Data Transparency	End-to-end lineage traces claims data from first notice of loss through adjudication to settlement, enabling impact analysis and supporting fraud investigation audit trails.

Travel, Transportation & Hospitality

Use Case	Example
Guest Data Governance	A hotel chain governs guest profile data across PMS (Opera), CRM, loyalty, and OTA channels. Auto-tagging identifies PII (passport, credit card, contact info). Policy-as-code enforces GDPR consent-based access for European guest data. Data masking ensures marketing teams access governed views. The dashboard tracks documentation completeness across all guest-facing systems.
Airline Passenger Data Compliance	DG Nexus governs passenger data with automated PNR sensitivity classification, lineage from GDS to analytics, and policy-enforced access for revenue management vs. customer service teams.

Healthcare & Life Sciences

Use Case	Example
HIPAA-Compliant Clinical Data Governance	A healthcare provider deploys DG Nexus across Epic, Cerner, lab systems, and claims platforms. Auto-tagging identifies all PHI fields. Policy-as-code enforces HIPAA minimum necessary access — clinicians see full records, researchers access de-identified views, billing sees only relevant fields. Lineage tracks patient data from EMR through analytics to CMS quality submissions. Gold certification ensures HEDIS reporting standards.
Research Data Governance	DG Nexus enables governed sharing of de-identified clinical data for research with automated ABAC policies ensuring IRB-approved researchers access only authorized datasets with full audit trails.

Public Sector

Use Case	Example
Citizen Data Governance	A government agency governs citizen data across benefits, tax, and social services systems. Auto-tagging classifies sensitive citizen PII, policy-as-code enforces inter-agency data sharing agreements, and lineage provides transparency for freedom of information requests and audit compliance.

Target Audience

- Chief Data Officers (CDOs)
- Chief Risk Officers (CROs)
- Data Governance Teams
- Data Stewards
- Compliance & Risk Teams
- Data Quality Teams
- Business Analysts

Azure Compatibility

Data Governance Nexus complements Microsoft Purview by adding deep governance automation including auto-tagging, policy-as-code enforcement, data quality management, and data masking capabilities. It integrates with Azure SQL Database, Azure Data Lake Storage, Azure Synapse Analytics, and Azure Databricks. Part of the Coforge Data Cosmos Nebula portfolio.