Data Modernisation Service

G-Cloud Service Definition Document

Introduction

Every organisation is facing extraordinary circumstances and unexpected disruption. Business success hinges upon the ability to anticipate market changes, quickly adapt operations and forge alternate pathways to deliver products and services to their clients.

Companies need a clear way to transform how they source, interpret and consume that information. That requires flexible data structures and a modern data and analytics platform capable of quickly turning data resources into insightful, actionable intelligence.

Our Approach

Data-driven enterprises consolidate siloed data sources and migrate legacy systems onto the cloud to deliver analytics and intelligence that inform everything from operations process automation to customer experiences.

Lower costs and democratized data increase speed of access and management. It enables dynamic forecasting and complete visibility into supply chains and improves security measures that ensure ongoing privacy compliance—like remote work.

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Driving Results

Our data infrastructure provides a highly accessible, useful and compliant platform that delivers cost savings and powers the analytics to enhance personalisation and optimise forecasting. With thousands of associates, Cognizant's experts are able to mobilize quickly to realize our clients' data modernisation vision. Typical results include*:

- A deployed platform within one month

- 50% cost savings in time, labour and legacy data storage

- 30–60% faster time to market

- ROI in six months

- 4x faster transition

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Business outcomes and strong ROI

Where we are making impact

10%
order time reduction

15%
reduction in infrastructure cost

99.9%
platform uptime

80%
reduction in data center leasing and maintenance cost

50%
savings on annual software license cost

Our data modernisation solution pinpoints bottlenecks in supply chains and helps improve product assortment, pricing, forecasting and marketing channels, driving costs down and revenues up. New business models monetize data and generate direct revenues from data sets, insights and analytics-based services and a resilient data infrastructure and process capabilities enhance customer service and sales.

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AI Data Modernisation – Reference Model

Our reference model lets our customers reimagine their data and analytics foundation using a set of 19 attributes that will help them redefine their data ecosystem in a structured way.

Reference model suggests 3 strategic objectives for data modernisation:

- Create a responsive cloud leveraged data architecture
- Establish an AI driven intelligent data management system
- Realise delivery at scale for fast insight delivery

AI Data Modernisation – Reference Model

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AI Data Modernisation – Method

Cognizant's Data Modernisation accelerates model development for novel and reliable insights, underpinned by an ensemble of method, platforms and applications that target various challenges across the data landscape.

The key phases involved are:

1. **ASSESS AND PRIORITIZE -** Assess the current data landscape and identify gaps. Define strategy, blueprint architecture, roadmap and prioritize use cases.

2. **MODERNIZE -** Implement data architecture, data privacy frameworks and data functions. Facilitate connections and data migration to new systems.

3. **FUTURE-PROOF** - Move data applications into the production environment and deploy proprietary workbenches to monitor data processes. Continuous improvement processes ensure agility and optimum performance

AI Data Modernisation – Engineering

Data Foundry (Intelligent Data Works), the "Asset to Build" is our cloud native development environment that helps clients accelerate the modernisation of their data, leveraging their current software investments.

The unique set of AI and machine learning accelerators build extensive automation into common, repetitive tasks across the data life cycle, enabling rapid builds of data platforms and capabilities. All or any combination of these data foundry tools can be applied to meet an organisation's specific requirements.

Our clients gain more business value sooner from their data ecosystems with our unique set of tools designed to automate manual tasks and make data accessible when and where it's needed. These automation and intelligence tools drive business innovation and outcomes.

Data Foundry Modules

- **Responsive Data Modelling Workbench:** Automatically generates data models by leveraging AI and machine learning, performs impact analyses and self-corrects the mapping to load data into the targets.

- **Data Integration Workbench:** Accelerates the end-to-end life cycle of data integration projects, enabling faster time to market, reduced cost of implementation and improved productivity.

- **Intelligent Migration Workbench:** Speeds technology migration projects with end-to-end solutions, including downstream and upstream data integration with applications or databases along with the applications that are running on the existing technology.

- **Testing Services Workbench:** Manages ETL/big data automation—QA leveraging the latest big data technologies.

- **DevOps Workbench:** Provides DevOps capabilities in the context of data management projects.

- **Data Services Workbench:** Automates the delivery of data to meet the needs of downstream applications and extracts it to external systems and end-user reports.

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DataIQ Framework:

DataIQ refers to the maturity of business data intelligence. The higher the DataIQ score, the more the data enables the organisation to drive the right business decisions.

Our DataIQ analysis identifies the existing—or missing—data sets that are critical to achieving business objectives. The tool helps us score and value data asset relevance and intelligence, enabling us to focus our data engineering efforts appropriately to deliver the desired business outcomes.

As a client's DataIQ increases, so does the organisation's ability to perform descriptive, diagnostic, predictive and prescriptive analysis by identifying relevant information, reducing noise and redundancy and understanding the scale of complexity in the dataset.

Key Decisions for Businesses:

Cognizant works with organisations to help them determine the best roadmap toward developing an ecosystem based on the core elements of its AI Data Modernisation Method reference model.

We evaluate the current data landscape, helping clients decide when and whether to bring legacy, siloed systems into the enterprise architecture or replace them by building or buying new cloud-native applications. We help ensure that our clients create the right business cases and investment cadence to achieve their specific business goals.

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The Cognizant Advantage

We bring extensive data-management-specific automation, AI and machine learning expertise to our clients. Cognizant also has deep data management expertise, evident in our portfolio of in-house developed tools and solutions, and strong partnerships with industry-leading data-management cloud providers as well as data integration, advanced analytics and business intelligence solution providers.

Our AI Data Modernisation Method has been ratified, endorsed and embedded by our strategic partners, including **AWS, Azure, GCP, Informatica** and **Talend**. These comprehensive skills and resources enable us to architect a feature-rich data ecosystem that aligns with your specific business objectives.

Get full value from your organisation's data by driving insights and transformation. To learn more, visit us at https://www.cognizant.com/us/en/services/ai/data-modernization

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About Cognizant

Cognizant (Nasdaq-100: CTSH) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast changing world. Together, we're improving everyday life. See how at **www.cognizant.com** or **@Cognizant**.

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