MarkLogic
MarkLogic Data Hub for Defense and Intelligence

MarkLogic Delivers Rapid and Secure Data to Achieve Mission Confidence

Government agencies have more data at their fingertips than ever before. Because of the limitations created by legacy IT systems and data silos, agency data fails to provide actionable, mission-critical intelligence and insights. These systems hinder both the integration of data across domains and the secure sharing of mission-critical information to the right personnel at the right time.

Defense and Intelligence agencies cannot afford to encounter delays, disruptions, or downtime of IT operations because for them, not having access to the right data at the right time means putting civilian and military lives at risk. Their missions require 24/7 agility and preparedness.

> " We have more data than we ever had access to before. Now how do we use it? How do we use it for good rather than allowing that opportunity to drown us?"
>
> - General Michael Hayden, Former Director CIA and NSA

The Avoidable Cost of Data Silos and Legacy IT Systems

A Fragmented View of Operations

The inability of agencies to gain a complete view of the operations across domains creates a self-imposed barrier to collaboration, productivity, and innovation – and impedes the achievement of the mission. When data remains in silos and cannot be shared securely at mission-critical speeds, leaders cannot have confidence their decisions are appropriate, or even necessary.

These conditions force analysts to operate with obscured views of data. At best, analysts must invest more time verifying data. At worst, analysts come to the wrong conclusions because of inaccurate or incomplete data. In this environment of uncertainty, they are unable to unlock knowledge across organizational boundaries to achieve intelligence advantage and the decision superiority required to remain competitive.

The Accumulation of Technical Debt

The maintenance and support of legacy systems consume an overwhelming majority of the Federal IT budget, inflating technical debt year over year. These older systems lock data into silos, making the process of integrating data across organizational boundaries virtually impossible without stitching together numerous point-applications and incurring substantial financial and human costs.

The decision to patch, upgrade, and re-work outdated technology only prolongs the inevitable failure of these systems. The human and monetary capital invested in creating band-aid solutions could be maximized and better utilized if allocated to the development and implementation of new, modern approaches.

An Increased Vulnerability to Security Threats

The battle to secure data begins with where it is stored. Each legacy IT system requires a tailored security solution to ensure data is safely shared and integrated to applications and beyond to the operational edge. When security is not consistent across the enterprise, the vulnerability of data to internal and external threats increases.
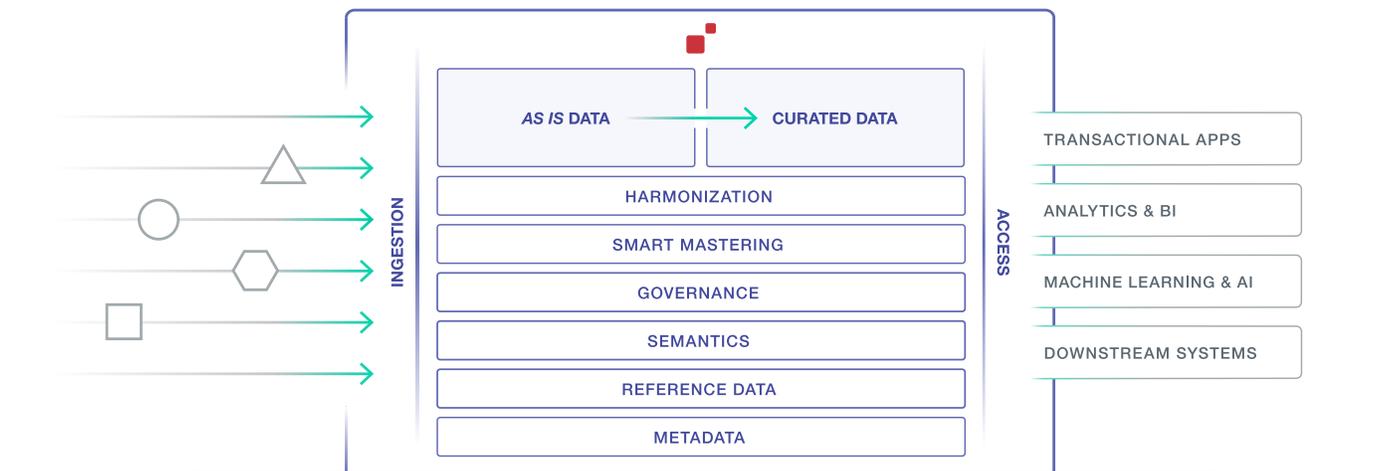
Security means not allowing data to get into the wrong hands and also protecting it from corruption; those two requirements are non-negotiable in systems serving National Security missions. To protect our data, personnel must be able to track and trace information from the time of ingestion. When each legacy system has separate security access controls, it is virtually impossible to monitor and protect all of the data adequately.

Advance Data Fusion with MarkLogic's Operational Data Hub

To overcome these challenges, Defense and Intelligence agencies need a complete view of their force posture to enable planning as well as better insight into potential threats and vulnerabilities of adversaries.

The MarkLogic Data Hub for Defense and Intelligence provides commanders complete access to all of the available data to answer their most pressing command questions.

The Data Hub platform integrates data across the enterprise – supporting the rapid aggregation of existing data, the incorporation of new data sources, and the integration of analyst insights and workflow processes to make data-based decisions at mission-critical speeds.

A Complete View

A unified view of the organization's information gives decision makers a complete view to bridge any knowledge gaps and securely share mission-critical data faster with lower costs. In national security situations, leaders need total access to information and their data at all times.

Improved Security

MarkLogic has authority to operate in some of the US Federal government's most sensitive agencies because of our certified government-grade and element-level security. This security is part of the core product, to help ensure your data is protected against external attacks and insider threats.

Faster Insights

MarkLogic's approach to simplifying data integration reduces costly and time-consuming data wrangling. Our Data Hub enables faster time to deployment to provide leaders with access to hidden data in legacy systems at mission-critical speeds.

MarkLogic

MarkLogic's Data Hub for Defense & Intelligence is your best solution for the collection, integration, securing, and sharing of operations information and classified reporting.

Federal Government Customers

MarkLogic supports numerous classified projects to help keep our country safe. We've included a few use cases and results achieved below.

U.S. Combatant Command

Enterprise Data Layer

Integrated Data, Integrated Intelligence
Surveillance and Reconnaissance (ISR)

Scalable – 100+ million documents on 70 clustered servers
Fast – 59 times faster than relational solution
Efficient – 57% reduction in disk space used
Flexible – Replicated data for global sharing
Success – Converting data to information

U.S. Government Agency

Message Traffic System

Integrated Data
Integrated Messaging Service

Timely – Rebuilt and deployed in less than 6 months
Scalable – 220M messages, 100K new messages/day
Fast – Sub-second results with facets and real-time alerting
Secure – Certified and accredited, discoverable but not viewable
Scalable – 30K registered users

About MarkLogic

Data integration is one of the most complex IT challenges, and our mission is to simplify it. The MarkLogic Data Hub is a highly differentiated data platform that eliminates friction at every step of the data integration process, enabling organizations to achieve a 360º view faster than ever. By simplifying data integration, MarkLogic helps organizations gain agility, lower IT costs, and safely share their data.

Organizations around the world trust MarkLogic to handle their mission-critical data, including 6 of the top 10 banks, 5 of the top 10 pharmaceutical companies, 6 of the top 10 publishers, 9 of the 15 major U.S. government agencies, and many more. Headquartered in Silicon Valley, MarkLogic has offices throughout the U.S., Europe, Asia, and Australia.

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