

Cloud Modernization and Consolidation

Enhance agility, reduce costs and improve operational efficiency

Modernize to Unlock the Potential of AI

To achieve scalability, flexibility and cost efficiency, organizations are accelerating cloud and application modernization while consolidating fragmented systems and data landscapes. Cloud modernization and consolidation together create a unified data foundation that simplifies operations, reduces redundancy and enables enterprises to fully leverage artificial intelligence (AI) and machine learning (ML). By modernizing infrastructure to the cloud and consolidating disparate environments, organizations can lower costs, accelerate innovation and respond more effectively to market change, while optimizing performance and enabling real-time analytics and decision-making.

However, cloud modernization and consolidation initiatives introduce significant complexity. Migrating and re-architecting legacy systems for cloud compatibility is resource-intensive, while application rationalization is required to eliminate overlaps and inefficiencies. Distributed and consolidated cloud environments increase the need for strong security, governance and regulatory compliance. Organizations must also manage escalating migration costs, integrate modern cloud technologies with existing processes and address cultural resistance through effective change management and workforce upskilling. Without strategic alignment across business and IT, these efforts can lead to inefficiencies rather than agility.

Overcoming these challenges requires a well-coordinated approach that aligns with strategic objectives, manages risk and drives continuous improvement.

Key Benefits

- Accelerate cloud modernization and consolidation with unified data management
- Adapt to change with scalability, flexibility and simplified cloud-native architecture
- Unlock growth with advanced analytics and intelligence with a unified cloud platform
- Mitigate risks and compliance gaps across modernized and consolidated environments
- Enhance efficiency through AI-powered automation

Cloud Modernization and Consolidation Challenges and Business Impacts

Key IT challenges can impede your organization’s ability to maximize the value of cloud modernization.

Top IT Challenge	Business Impact
Migration of large volumes of data from on-premises systems to the cloud	Potential system downtime, high migration cost and data integrity issues
Maintenance-intensive on-premises system	Elevated costs of maintaining expensive hardware, infrastructure and data centers
Difficulty integrating existing on-premises systems with new cloud services	Higher likelihood of system disruption plus poor interoperability between legacy systems and modern cloud technologies
Overly complex tasks for managing and updating software	Excessive time and resources are required to keep software and systems current
Threats to the security of sensitive data	Increased effort required to protect against potential vulnerabilities and comply with industry regulations
Limited ability to deploy new services and applications due to legacy infrastructure	Reduced business agility and innovation
Fragmented data spread across multiple tools, platforms and vendors	Higher total cost of ownership, duplicated capabilities and inconsistent data across the enterprise
Managing multiple integration, quality and governance tools post-migration	Continued operational complexity, higher licensing and support costs and reduced ROI from cloud investments
Difficulty standardizing security and compliance controls across consolidated platforms	Increased risk exposure, inconsistent policy enforcement and audit complexity

¹ Informatica, Navigating the Benefits and Challenges of Cloud Modernization, 2024.
² IDC, IDC FutureScape: Worldwide Cloud 2025 Predictions, Oct 2024, Doc # US52640724.
³ Promethium.ai
⁴ ADAPT’s 2024 CIO Edge research

89%

of data leaders strongly believe that modernizing legacy data infrastructure to the cloud is critical to enable AI¹

60%

the number of businesses that will have modernized up to 50% of their cloud architecture by 2027, to encourage infrastructure and cost efficiency and enable business and technical innovation²

200-400%

The ROI companies that consolidate data platforms report over 3 years,³ along with 30-70% performance improvements

68%

CIOs planning vendor consolidation, with many targeting a 20% reduction in vendors to enable simplification, resilience and strategic technology investment to drive business value⁴

Drive Innovation with a Unified Cloud Modernization Solution

To address today's IT and data challenges and accelerate the transition to the cloud, organizations need a comprehensive approach that modernizes and consolidates their IT infrastructure seamlessly. Cloud modernization and consolidation replace fragmented on-premises systems and outdated applications with a unified, scalable and cost-efficient cloud-native data architecture. This simplifies operations, minimizes redundancies and improves overall efficiency. This modern data foundation is essential in the AI era to enable advanced analytics, ML and real-time decision-making.

Modern, AI-powered cloud data foundation supports hybrid and multi-cloud environments, enables seamless data integration and interoperability and uses advanced AI capabilities to automate complex tasks and strengthen data quality, security and governance. By consolidating disparate systems and optimizing cloud operations, organizations can reduce costs, accelerate innovation, respond faster to market shifts and build a future-ready enterprise that drives sustained growth and competitive advantage.

Choose a modern cloud modernization solution that helps:

- **Accelerate cloud modernization and consolidation with unified data management** to manage data across cloud, on-premises and hybrid environments while consolidating fragmented systems and data sources.
- **Adapt to change with scalability, flexibility and simplified architecture** to handle fluctuating data volumes and diverse workloads efficiently, reduce complexity and infrastructure sprawl and adapt to evolving demands without costly architectural overhauls.
- **Unlock growth and innovation** with advanced analytics and intelligence through a unified platform that delivers predictive analytics and actionable insights, automates processes and unleashes the full potential of data assets.
- **Mitigate risks and compliance gaps** across modernized and consolidated environments with features such as data masking, encryption and access controls to help ensure regulatory adherence.
- **Enhance efficiency through AI-driven automation**, freeing up resources and improving productivity while maintaining high data quality and operational efficiency.

Powering Cloud Modernization and Consolidation Initiatives with a Unified Data Foundation

A unified, consolidated cloud architecture helps reduce complexity, streamline operations and accelerate innovation across the enterprise. Top priority use cases include those laid out below.

Application and ERP modernization

From disconnected data to trusted, real-time ERP insights

By modernizing legacy applications and enterprise resource planning (ERP) systems to cloud-native platforms and consolidating fragmented data and **data management** processes, organizations can reduce operational complexity and establish a unified, trusted data foundation. However, these initiatives are often delayed or exceed budgets due to data silos, inconsistent **data quality** and limited **governance** across multiple systems and environments.

Informatica's **Intelligent Data Management Cloud** (IDMC) addresses these challenges by bringing data integration, data quality, **master data management** (MDM), cataloging and governance together on a single, cloud-native platform. By unifying and governing data across hybrid and multi-cloud environments, IDMC helps ensure that modern ERP applications are powered by accurate, consistent and real-time data.

As a result, organizations can streamline operations, enable faster and more confident decision-making, enhance scalability across enterprise processes and reduce the risks, costs and delays commonly associated with application and ERP modernization programs.

Cloud Modernization

From technical debt to scalable, cloud-native data operations

Many organizations are burdened by a mix of on-premises data management tools and legacy infrastructure that increases technical debt, drives up costs and limits agility. Modernizing and consolidating these environments onto a single, cloud-native data management platform is essential to accelerate digital transformation and improve enterprise efficiency. By migrating both Informatica on-premises products — such as PowerCenter and MDM — and non-Informatica tools to IDMC, organizations can simplify their data landscape while strengthening governance and scalability.

IDMC provides a unified, cloud-native platform that replaces fragmented tools with integrated data integration, quality, MDM and governance capabilities. This consolidated approach reduces infrastructure and operational costs, accelerates time-to-value and enables organizations to scale data management capabilities on-demand.

As a result, businesses gain greater agility, improved data governance, faster insights and a modern, future-ready data foundation that supports innovation and sustained growth.

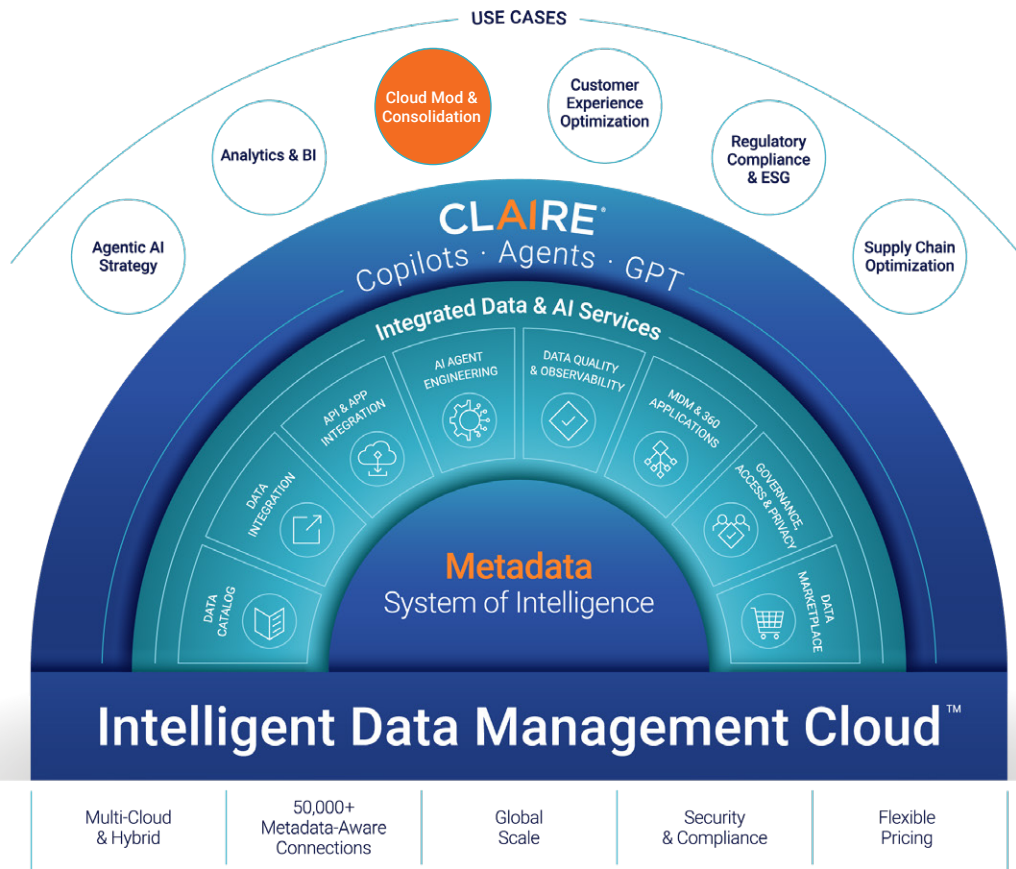


Figure 1. The Informatica end-to-end Intelligent Data Management Cloud (IDMC), powered by CLAIRE AI

“IDMC helps us bring all the data management capabilities together in the best data architecture you can imagine. Rather than juggling multiple data products and siloed tasks, IDMC gives you a single plane to visualize all the work across any cloud or platform, from data sourcing and quality to consumption.”

Sudeep Regmi, Head of Data Management and Innovation, Takeda

Data Management Vendor Consolidation

From complex data processes to reduced complexity, risk and costs

Enterprises often rely on a patchwork of legacy data tools and point solutions that increase complexity and costs, slowing modernization efforts. Data management vendor consolidation is a critical step in simplifying this landscape and establishing a scalable foundation for cloud modernization.

By consolidating integration, data quality, governance, metadata management, MDM and AI services on IDMC, Informatica enables organizations to replace fragmented tools with a single, cloud-native platform. This unified approach eliminates technical debt, lowers the total cost of ownership and streamlines operations while ensuring consistent governance and automation through shared metadata.

By integrating interoperable services into a unified, cloud-native data platform, organizations can enhance security, strengthen compliance and improve interoperability across hybrid and multi-cloud environments. As a result, businesses can deliver trusted, high-quality, AI-ready data across the enterprise, reducing risk, accelerating innovation and modernizing with greater confidence and cost control.

Takeda Brings Clinical Data to Life for AI

Biopharmaceutical company **Takeda** is focused on the discovery and development of life-transforming treatments in core therapeutic and business areas. To speed up clinical trials and fuel new AI use cases, Takeda modernized its cloud data backbone on Informatica and AWS.

Now, a research and development data hub streamlines trusted information-sharing. “With data volumes growing 20% each year, we needed the strategy of a cloud-first, AI-driven infrastructure as a service that can be optimized across the company,” says Takeda Chief Data Officer Barbara Latulippe.

IDMC made it easy to ingest data into new data lakes hosted on Amazon S3 and orchestrate data management across storage layers. Takeda moved 96% of its data to the cloud within just 18 months and simplified its on-premises footprint to three data centers. Each month, the scalable Informatica infrastructure efficiently runs over 450,000 data integration jobs and processes more than 30 billion records.

By simplifying its cloud data and AI architecture with Informatica IDMC, Takeda saves millions in IT overhead and total cost of ownership. “We’ve seen a lot of benefits from IDMC’s cost optimization, including bottom-line savings and indirect efficiencies of up to 40% with our cloud migration and unified integration hub,” says Latulippe.

This cloud-first strategy optimized costs, streamlined data management and enabled Takeda’s researchers and scientists to run faster, more efficient clinical trials, helping develop therapies with greater precision and getting safe, innovative treatments to market quickly.

[Learn More](#)

Maximize the Benefits of Cloud Modernization with IDMC

Many organizations struggle to realize the full value of cloud modernization and consolidation initiatives when relying on fragmented legacy tools and siloed processes. Without a unified, AI-powered platform that modernizes infrastructure, consolidates disparate systems and supports hybrid and multi-cloud environments, efforts to reduce complexity, control costs and improve data quality and governance often fall short. That's where IDMC can help.

The Informatica **cloud modernization solution** is a proven program that accelerates the migration of on-premises workloads to the cloud, reducing costs, time and risk while ensuring business operations continue uninterrupted throughout the transition.

IDMC is an end-to-end, cloud-native data management platform powered by **CLAIRE® AI** (see Figure 1) that connects, manages and unifies data across virtually any hybrid or multi-cloud environment. Consolidating data management capabilities on a single, intelligent platform helps eliminate silos, democratizes trusted data and uses AI and ML to automate and scale data management tasks.

IDMC delivers an intuitive, efficient and cost-effective platform that enables organizations to modernize and consolidate their data and application landscapes. Key capabilities include:

- **Cloud-native data and application integration**
High-performance integration services support hybrid and multi-cloud environments, enabling seamless data movement, transformation and interoperability across modernized and consolidated systems.
- **Trusted, curated data management**
Built-in data quality, cleansing, matching and standardization services, combined with MDM deliver a single, trusted view of data, supporting data integrity through cloud migration, application modernization and system consolidation.
- **AI-powered intelligence and automation**
CLAIRE® AI automates complex data management tasks and provides predictive insights, optimizing operations, accelerating cloud adoption and driving faster time-to-value.
- **Unified governance, security and compliance**
An end-to-end governance framework helps enforce consistent security, privacy and policy controls across modernized applications and consolidated environments, mitigates risk and supports regulatory compliance.
- **Self-service analytics and data access**
Intuitive self-service capabilities give business users secure access to trusted data and analytics, enabling faster insights and decision-making while reducing IT dependency and operational overhead.

In addition, flexible pricing options help organizations better plan and predict usage, budgeting and optimal costs while automatically scaling compute power based on data management workloads.

Beyond Cloud Modernization: Exploring More Opportunities

As organizations progress with cloud modernization and consolidation and begin to realize measurable value, they can extend these initiatives to strengthen their broader data strategy. By unifying and consolidating data assets on a single platform, IDMC enables additional use cases, including advanced analytics and business intelligence, regulatory and compliance reporting, optimized customer experiences and accelerated AI initiatives. This consolidated approach provides a consistent, trusted foundation for securely sharing critical data assets across the organization, helping enterprises drive greater agility, innovation and business impact.

Where data & AI come to



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About Informatica

Informatica from Salesforce is a leader in AI-powered enterprise cloud data management. Its Intelligent Data Management Cloud (IDMC) platform enables organizations to connect, manage and unify AI-ready data across the enterprise. With capabilities spanning data cataloging, integration, governance, quality, privacy, metadata management and master data management, Informatica supports a broad partner ecosystem and helps customers unlock the full value of their data and AI initiatives.

About Salesforce

Salesforce is the #1 AI CRM, empowering companies to connect with their customers in a whole new way through the power of artificial intelligence, data, and trust. For more information about Salesforce (NYSE: CRM), visit: www.salesforce.com.

Want to learn more?

Discover Informatica data integration and management use cases at www.informatica.com/use-cases/cloud-modernization.

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