

The Shortest, Safest Route from Mainframe to the Cloud

Reduce risks, costs, and duration of mainframe-to-cloud migrations with an end-to-end, GenAI-augmented transformation solution.



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From Mainframe to Cloud

Why modernize?

In today's competitive markets, the ability to optimize processes and maximize customer engagement sets industry leaders apart. Achieving this requires real-time, actionable insights powered by data.

To unlock this potential, organizations must effectively leverage artificial intelligence (AI), machine learning (ML), and GenAI-driven capabilities, supported by the scalability, resilience, and flexibility of hyperscale cloud platforms.

Enterprise organizations, especially those in highly regulated sectors like financial services, government, telecom, are often behind the cloud adoption curve. It is vital to act with speed and prudence to mobilize secure, compliant, value-driven cloud adoption.

End-to-End Modernization

Traditional modernization programs are often fragmented, costly, and limited in impact. They consume budgets quickly while delivering isolated improvements. Solving one challenge frequently introduces new dependencies, leaving organizations stuck in cycles of partial progress.

Amdocs' end-to-end modernization solution breaks this pattern. It combines holistic digital transformation capabilities, including cloud modernization, agentic AI, quality engineering, and experience-led design.

The result is a comprehensive, low-risk, and cost-optimized transformation that ensures consistency at scale and a unified delivery model that manages strategy, execution, and outcomes under one roof.



Agentic Transformation: Changing the Modernization Equation

Amdocs' mainframe modernization solution is built on two complementary transformation patterns: refactoring and rearchitecting, augmented by agentic AI.

Refactoring enables organizations to modernize and move legacy applications to the cloud by automatically transforming code and data while preserving core business logic and ensuring functional equivalence.

For enterprises seeking deeper transformation, rearchitecting unlocks the full value of modernization by decomposing applications into cloud-native, microservices-based architectures designed for agility, scalability, and continuous innovation.

At the core of this approach is an agentic AI-driven framework, where intelligent agents enhance every stage of the modernization journey, from discovery and code analysis to transformation, testing, and deployment. These agents work in tandem with proven automation and domain expertise to analyze complex systems, generate insights, orchestrate workflows, and continuously adapt to project needs, significantly accelerating delivery while reducing manual effort and risk.

The result is a comprehensive, low-risk, and cost-optimized transformation model that accelerates decision-making, automates complex processes, and ensures consistency at scale, from legacy assessment to cloud deployment and ongoing operations.





Legacy Discovery and Operational Continuity

A holistic understanding of the current mainframe environment ensures that modernization efforts align with business priorities, regulatory needs, and operational dependencies. By leveraging AI-driven discovery and contextual analysis, organizations gain deep visibility into complex systems, reducing risk and preventing disruption to critical services.

Amdocs' automated discovery tools, powered by intelligent agents and supported by proven methodologies and domain expertise, rapidly analyze applications, data, and dependencies at scale. They identify optimization opportunities and generate clear, actionable modernization roadmaps tailored to each client's needs. This AI-augmented foundation ensures operational continuity while accelerating and de-risking the transformation journey.

Global Insurance Leader Solves Mainframe Challenges

A leading global insurance provider that has been providing peace of mind to its customers for over a century entrusted Amdocs with its mainframe transformation and cloud migration:

- Six mainframe systems fully modernized
- Modernized applications with functional equivalency
- Significant cost savings as soon as 18 months from the project start
- Multiple data models consolidated
- Adopt advanced analytics, GenAI, and enhance the customer experience

Refactoring and Application Rationalization

We offer a comprehensive, fully integrated automation and agentic AI platform for code transformation, data conversion, database migration, testing, and validation.

The Amdocs FastTrack Factory leverages intelligent tools and agents to accelerate and standardize mainframe modernization by automating the entire process end to end:

- AI-driven discovery, code transformation, data conversion, and database migration
- Automated testing of online and batch applications
- Intelligent workflow orchestration and execution

Using FastTrack, legacy applications written in COBOL, Assembler, Natural, or PL/1 are intelligently refactored into modern languages such as Java or C#.

GenAI-powered analysis ensures business logic is accurately preserved while significantly reducing technical debt. At the same time, agentic AI identifies non-essential or redundant applications for retirement, lowering costs, simplifying the IT landscape, and enabling a more efficient, future-ready architecture.

Achieve rapid results and modernize with confidence

Fully automated code and database migration frees your teams to focus on strategic decisions rather than manual execution. With the Amdocs FastTrack Factory, migration timelines can be reduced by up to 90%, accelerating your path to value.

Comprehensive automated testing minimizes risk and ensures the migrated applications perform exactly as intended, giving your teams the confidence to move forward with certainty.



100%
automation



Up to 90% project
duration reduction



No business
interruption

Cloud Migration and Deployment

The urgency to modernize and migrate to the cloud has never been greater. Yet many transformation initiatives still fall short of expectations. High costs, complexity, skills gaps, and reliance on manual processes continue to limit success.

We help enterprises overcome these challenges through agentic AI-assisted cloud migration and modernization services that intelligently prioritize workloads, automate migration, and accelerate enterprise cloud transformation at scale.

We partner with all hyperscalers, ensuring seamless deployment, workload portability, and compliance.

North American Tier 1 Telecom Company

A tier 1 telecom organization in North America worked with Amdocs to modernize their mainframe environment and migrate applications to the cloud.

The challenge: Mainframe footprint

The company wanted to implement optimization processes to logical partitions, reduce their mainframe footprint to save costs, and modernize and migrate mainframe applications.

The solution: Transformation with Amdocs

Amdocs implemented infrastructure and system operations, application maintenance, development of 98 %of the telecom organization's mainframe applications, and application transformation or migration to the cloud. This included converting hundreds of applications to Java, spanning approximately 80 different legacy technologies.

The result: Hardware, MIPS, risk, and cost reduction

The client dramatically reduced the number of mainframe servers and thousands of MIPS, while enabling and supporting their modernization roadmap. End-to-end accountability with proven methodology and practices reduced project risk. Plus, the enterprise achieved enhanced operational resilience, security, and compliance.

Day 2 Operations and Continuous Innovation

Once in production, the solution extends into ongoing management and optimization. AI-driven automation, observability frameworks, and FinOps practices ensure that the new environment remains cost-efficient, resilient, and continuously improving.

Through Amdocs Studios' integrated ecosystem, organizations gain the ability to evolve further, adopting new technologies, integrating with digital services, and driving innovation across the enterprise.

Here are some of the main benefits:

- Intelligent automation for stability and cost control
- Continuous compliance, real-time observability, and AI-driven insights
- Future-ready platform for new services and ongoing innovation





Winning the Cloud Race with Agentic AI

Rearchitecting to Microservices

Recent years have seen a mainframe “cloud race” as companies look to optimize costs and create a foundation for modernization. These developments typically start with the refactoring of legacy IT to build like-for-like computing environments in the cloud.

Deconstructing the mainframe into smaller, distinct microservices aligned with specific business domain requirements is an essential next step. The journey to a microservices architecture tends to be lengthy and unpredictable.

Amdocs’ agentic AI solution overcomes many of the obstacles that hinder mainframe modernization. It combines decades of mainframe modernization insight with deep knowledge of IT architectures and GenAI principles.

Amdocs’ mainframe modernization AI agents are expertly engineered, human-guided and LLM agnostic.

Unique Funding Model

Depending on the selected solution and objectives, modernizing legacy applications can lead to a 60-80% reduction of operational and maintenance expenses. Some of our clients achieved up to 90% savings in operating costs following their digital transformation initiatives.

Organizations choosing this transformation approach get access to the Amdocs end-to-end mainframe modernization program, designed to be cost-efficient, low risk, and future-ready. The program follows a self-funding model, where savings from mainframe optimization and cloud migration help offset transformation costs.

The delivery model brings together a comprehensive modernization framework, complete automation through a cloud migration factory and experienced delivery teams. With a single-vendor accountability model, organizations can reduce risk, simplify execution, ensure operational continuity and achieve measurable business outcomes while preparing their IT landscape for ongoing innovation.



60-80%
cost savings



Self-funding
model



The Power of a Unified Approach

By connecting every stage of transformation through a unified, agentic AI-powered delivery framework and a single accountability model, we enable our clients to achieve:

- Faster time to value through GenAI-driven automation and proven methodologies
- Reduced risk with single-vendor accountability and end-to-end, AI-augmented governance
- Sustainable cost savings enabled by self-funding modernization models and intelligent optimization
- A future-ready architecture designed for agility, scalability, and continuous innovation

The result is a unified, data-driven, and AI-powered transformation journey empowering enterprises to migrate with confidence, modernize with purpose, and operate with intelligence.

Get in Touch

For more information about the Amdocs FastTrack and mainframe to cloud migration, contact our experts: mainframemod@amdocs.com



With Amdocs,
you benefit from
a complete,
end-to-end solution,
not just conversion
software



Amdocs helps the world's leading communications and media companies deliver exceptional customer experiences through reliable, efficient, and secure operations at scale. We provide software products and services that embed intelligence into how work runs across business, IT, and network domains – delivering measurable outcomes in customer experience, network performance, cloud modernization, and revenue growth. With our talented people, and more than 40 years of experience running mission-critical systems around the globe, Amdocs runs billions of transactions daily. Our technology is relied on every day, connecting people worldwide and advancing a more inclusive, connected world. Together, we help those who shape the future to make it amazing.

Amdocs is listed on the NASDAQ Global Select Market (NASDAQ: DOX) and reported revenue of \$4.53 billion in fiscal 2025.

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