

G-Cloud 15

Mainframe Modernisation



AtoS

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1. What is Mainframe Modernisation?

There is no one-size-fits-all approach for mainframe modernisation. With decades of world-class mainframe product and service experience, Atos understands the complexity of the data centre and mainframe ecosystem, and we use this expertise to develop your value-driven modernisation strategy. We create and execute custom client journeys that include the right combination of migrating, modernising and innovating, leveraging AI technologies where beneficial - all focused on driving towards digital transformation leveraging modern cloud services.

Challenges that the service resolves:

- **Reducing technical debt** by mainframe modernisation methodologies to support the move to cloud through application rewrite, re-platforming, code modernisation and infrastructure strategies
- **Reduce business disruption**, expand into new markets by creating a Cloud Native environment that scales and is geographically redundant
- Creating a **cloud environment** that is both secure and hardened as well as meeting corporate sustainability goals
- Unlocking **mainframe data** by creating re-platforming and legacy data interfaces to the public cloud for AI/ML solutions
- An incremental, **low-risk approach** to progressively shrink, consolidate or exit data centres by moving workloads, including MF applications, to the cloud.



2. What does it deliver?

Most mainframe organisations were not built in the cloud, so they will need help migrating their technology suites for years to come. To address this need, Atos has invested in cloud and modernisation capabilities, leveraging AI technologies combined in a unique cloud transformation programme.

- **Mainframe Modernisation Assessment & Consulting**
Conduct a comprehensive inventory, technical health check, and business-impact analysis to identify risks, dependencies, and modernisation opportunities.
Deliver a prioritised roadmap with cost/benefit, migration options, timelines, and executive recommendations for adoption.
- **Digital Transformation**
Define a business-driven strategy that aligns people, processes, and technology to move from legacy workflows to digital services and experiences.
Identify quick wins and scalable initiatives (APIs, automation, cloud) that improve agility, customer experience, and measurable KPIs.
- **Digital Re-Architecture**
Redesign legacy monoliths into modular, API-first architectures (microservices, serverless, containers) optimised for cloud scalability.
Produce target application and integration blueprints, non-functional requirements, and migration patterns to support iterative delivery.
- **Manage-Migrate-Modernise**
Provide an end-to-end program model covering governance, planning, execution, and runbook-based operations across migration waves.
Combine managed services with migration and modernisation workstreams to minimise downtime, control risk, and transition knowledge to operations.
- **Rehost**
Execute lift-and-shift migrations to virtualised or cloud-hosted platforms that preserve existing application behaviour with minimal code change.
Deliver migration scripts, validation tests, and rollback plans to quickly reduce infrastructure costs while enabling near-term cloud benefits.
- **Reverse Engineering and Business Rule Extraction**
Analyse legacy code, batch jobs, and transaction flows to extract business rules, decision logic, and data transformations into readable artefacts.
Produce traceable rule catalogues and models to enable re-implementation, testing, and governance in the target architecture.

- **Data Modernisation**

Migrate, rationalise, and modernise mainframe data to cloud native or modern database platforms, improving accessibility and performance.

Implement data governance, ETL/ELT pipelines, metadata management, and approaches for master data, security, and regulatory compliance.

- **Application Decommission & Data Archival**

Safely retire redundant mainframe applications with validated archival of transactional and historical records to compliant storage.

Provide access-layer services, retention policies, and verification reports so archived data remains searchable, auditable, and retrievable.



3. What technology does it use?

Mainframe modernisation is delivered through a structured set of capabilities that typically starts with a **Modernisation Assessment & Consulting** phase to baseline applications, data, cost, risk, and target-state options, followed by **Digital Transformation** and **Digital Re-Architecture** to redesign critical services for agility and resilience.

Delivery is executed using a **Manage–Migrate–Modernise** model, combining quick wins, such as Rehost where appropriate, with deeper steps, such as Reverse Engineering and Business Rule Extraction, to safely refactor or replace legacy logic, leveraging AI technology as much as possible. In parallel, **Data Modernisation** (migration, quality, governance, and replication) ensures trusted data on the new platform, while **Application Decommissioning** and **Data Archival** retire redundant workloads and meet compliance needs once cutover is complete.

LifeCycle Step	Technology
Discovery & Analysis	Inventory Analyser, Maintainability Index
Reverse Engineering	Business Rule Extraction, Impact Analyser, Flow Charts, Auto Documentation
UI Modernisation	UI migrations to AngularJS, JAVA, ASP/.NET
Database Modernisation	Migrations supporting IMS, RDBMS, VSAM, ADABAS, DB2 Data Visualisation
Language Re-architect	Legacy COBOL, RPG, PL/1, CA-Gen, JCL/CL, NATURAL, Assembler
Code Optimisation	Dead Code Analysis Refactoring
Cloud On-boarding	Cloud native auto remediation for major clouds, GCP, AWS, Azure, Containerisation, Micro Services Virtualization
Ecosystem Migration	Security Migration Scheduler Migration
Testing	Regression & Test Automation Data Comparison, Data Validation, Masking
Implementation and Steady State	AMO Portal, IT Ops Automation DevOps



4. What terms apply?

To the fullest extent permitted under G-Cloud 15 Framework Agreement and the Call-Off Contract, Atos will provide the Services in accordance with the Atos Supplier Terms (which will include, but may not be limited to, the Supplier Acceptable Use Policy, Supplier Data Processing Agreement, Supplier Specific Shared Responsibility Model, Supplier SLAs and Supplier Licence Terms and any applicable Third-Party Terms outlined in this Service Description document and the Order Form) and this Service Description document.

For clarity:

- Atos Supplier Terms may be modified in accordance with the provisions of the Call-Off Contract, and remain effective except where expressly overridden.
- Hyperlinks included in the Atos Supplier Terms and Service Description document remain effective where they point to Atos' or the relevant Third-Party Terms or documents. Should a hyperlink cease to function, Atos will work with the client to update it through the agreed procedure.



5. Termination

Termination shall be in accordance with:

- The G-Cloud 15 Framework terms and conditions
- Any terms agreed within the Order Form of the relevant Call-Off Contract
- For this specific service, by default Atos ask for at least thirty (30) days prior written notice of termination without cause.

Atos commits to the continued provision of services for the duration of the Call-Off Contract subject to the terms and conditions of the G-Cloud 15 Framework Agreement, the Call-Off Contract, the Atos Supplier Terms and the applicable Third Party Agreements (as defined in the Atos Supplier Terms and indicated in the Order Form) related thereto.



6. How do I order?

Please contact our team at: gcloud@atos.net

- We will prepare a quotation for your review, including any applicable volume discounts.
- Once the quotation is agreed, we will issue the necessary documentation (as required by the G-Cloud Framework) and request a purchase order from you.
- Upon receipt of your purchase order, we will configure the services in line with the agreed requirements. Where applicable, you will also receive access to our self-service portal to begin provisioning services.
- If you are a new customer, you may need to complete additional 'new supplier' forms.
- Invoices will be issued to you and to Crown Commercial Service (CCS), quoting the purchase order number, for the services procured.
- We will also submit the required monthly management information reports to Government Procurement.



7. Glossary

Term	Definition
AI	Artificial Intelligence
API	Application Programming Interface
AWS	Amazon Web Services
ETL/ELT	<u>ETL (Extract, Transform, Load) and ELT (Extract, Load, Transform)</u>
GCP	Google Cloud Platform
KPI	Key Performance Indicator
ML	Machine Learning



8. Why Atos

Atos has been a trusted partner on every G-Cloud iteration since the framework began, helping public sector organisations modernise with confidence. We combine global expertise with deep UK experience, delivering secure, scalable cloud solutions that meet the highest government standards.

As Europe's leading provider of cloud and cybersecurity services, Atos offers end-to-end capabilities - from migration and hosting to SaaS and consultancy - supported by UK delivery centres and strategic partnerships with hyperscale's.

Our focus on innovation, sustainability, and social value ensures that customers not only achieve operational excellence but also contribute to a greener, fairer future. With Atos, you gain a proven partner committed to driving efficiency, resilience, and transformation across public service.



About Atos

Atos Group is a global leader in digital transformation with c. 67,000 employees and annual revenue of c. €10 billion, operating in 61 countries under two brands – Atos for services and Eviden for products. European number one in cybersecurity, cloud and high-performance computing, Atos Group is committed to a secure and decarbonized future and provides tailored AI-powered, end-to-end solutions for all industries. Atos Group is the brand under which Atos SE (Societas Europaea) operates. Atos SE is listed on Euronext Paris.

The purpose of Atos Group is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

Learn more at: atos.net