Redefining Legacy Modernization

aVeriSource

Legacy Modernization: The CIO Dilemma

Gartner highlights legacy application modernization as a top concern for IT leaders globally. The scale and complexity of these systems—combined with historically high failure rates—make modernization a significant strategic risk. As a result, organizations are increasingly focused on choosing proven, reliable, and comprehensive modernization approaches they can trust.

The AveriSource Advantage

With an unrivalled track record spanning more than 30 years, AveriSource stands apart as the partner of choice for legacy mainframe and midrange application modernization. Our experience is built on lessons learned from processing over two billion lines of code (LOC). We combine comprehensive, end-to-end **Hybrid Modernization Services** with our proven AI-powered **AveriSource Platform** to offer an outcome-based, agnostic, future-ready approach to legacy application modernization.

Key legacy modernization capabilities

- The AveriSource Platform supports **Modernization Planning** through deep-dive code analysis to define the current and target states, assess interdependencies, and develop a fact-based legacy modernization roadmap.
- We leverage deterministic analysis supported by agentic and generative AI (GenAI) to extract business rules and generate business function specs to support forward-engineering **Reimagine** (rebuild) efforts, streamline functional equivalence testing, and support complex legacy modernization requirements.
- We use automated tooling and proven methodologies to **Refactor** COBOL, PL/1, Assembler, Easytrieve, JCL and other legacy languages to modern Java or C#.
- Our Refactor solution supports a **Replatform** of COBOL on distributed platforms. Customers can choose to retain specific components in COBOL and Refactor others to Java or C# in a single project, and at an optimal pace based on business needs.

How we use Artificial Intelligence (AI)

- AI is not the system of record for application understanding. We use proven deterministic parsing and code analysis to establish an accurate baseline of legacy behavior.
- We build a verified, traceable application knowledge graph. Parsed code structures are converted into a language-independent function-level model with complete lineage to source.
- We extract business intent, not just technical structure. Business rules, specs, and functional understanding are generated from validated business functions and application behavior.
- Our Averi agent exposes extracted knowledge, source context, and modernization assets to accelerate AI-based forward engineering into modern architectures and languages.

Customer success stories

- Financial Services Client Modernization Story - Business Rules Extraction and Accelerated Rewrite to Java for 51M LOC IBM Z CICS COBOL, Assembler, JCL and Easytrieve
- Supply Chain Client Modernization Story - IBM i (AS/400) RPG and COBOL Business Rules Extraction to Accelerate Rewrite to C# .NET
- Aerospace Client Modernization Story - IBM Z COBOL, Db2 and IMS Refactor to C# .NET SQL Server

For More Customer Project Stories – Visit www.averisource.com/case-studies

Why AveriSource?

- An agnostic, hybrid-based legacy modernization approach focused on customer outcomes rather than a bias towards any single legacy modernization pattern.
- 30+ years legacy modernization experience, completing 250+ projects.
- Proven delivery processes, skilled resources, and software that leverages decades of accumulated knowledge complemented by agentic and GenAI.
- Support for multiple legacy platforms, languages and databases.

aws PARTNER aws PARTNER

www.averisource.com