



Accelerating Clients' Applications and Data Modernization Journeys



Maintaining legacy applications is expensive, whether considering the cost of legacy skills as they become rarer or license costs and increasing renewal fees from legacy software vendors. As organizations seek ways to extend the life of applications and enable easier modification to address new business initiatives and regulatory requirements, they have an increasing desire to eliminate legacy technologies from their applications stack. A range of challenges, from economic pressures to the pace of change to performance issues and risks, all influence decisions about the best path forward.

Application modernization is a cost-effective means of preserving a company's investment without the expense and risk of completely rewriting the system. Often the most effective application modernization approach is converting legacy systems to more modern languages and databases. For example, converting COBOL to Java or C# or converting datastores from IMS, IDMS, Model 204, Datacom and Oracle to SQL Server, PostgreSQL, MySQL or Db2.

Creating a more maintainable, efficient applications environment

Ensono recently enhanced its application modernization consulting services with the acquisition of ExperSolve, a company with more than 20 years expertise delivering application modernization for clients. Our assessment portfolio helps clients determine their optimum application modernization journey. Based on a client's desired business outcomes, legacy cost and skills profile, and applications technology preferences, we present clear options and a roadmap that best fit the situation. These recommendations resolve legacy issues across hybrid environments; mainframe, IBM i, Unix, distributed systems and/or cloud services. Recommendations might include legacy language upgrades; conversions and data migration; integration of the mainframe and cloud applications and data; transformation from IaaS to PaaS services; and environment consolidation.

Regardless of which approach is chosen, the migration to lower-cost platforms, languages, and databases maintains business functionality in the applications, and increases the ability to update and evolve the application to deliver enhanced value, often with improved performance, enhanced security, and reduced costs. The modernized applications eliminate unsupportable or skill-constrained technologies from our clients' estates.

What we do?

We offer three areas of specialized expertise for application modernization

- **Strategic modernization journey maps for legacy applications and databases**, driven by business rules analysis, technical assessments and proofs of concepts that increase the success in achieving business outcomes.
- **Automation and expert-led refactoring of legacy application languages, databases and data to modern platforms**, including a proven testing and implementation methodology.
- **Automated data conversions** across multiple technologies and platforms

How we do it?

Ensono application modernization projects drive the optimum balance of code and data conversion velocity and volume, delivering high-quality code output that is maintainable by modern developers. After completing an assessment, business case and detailed plan for modernization, we deploy a proprietary methodology and toolset to automate the conversion process:

- The Application Migration Methodology™, called AMM™, is a five-phase methodology for identifying and solving conversion issues in advance of converting any code.
- ExperThink™ is an automated refactoring tool that automatically transforms legacy code to modern languages. Automation can be as high as 98%, which saves both time and expense. The code is optimized by our experts and AI conversion toolset to ensure highest quality is delivered in the converted application.
- The Universal Data Converter™ (UDC™) is a tool that automatically handles data validation and conversion. We address conversion between data schemas, stored procedures and advise application teams of data access code changes that may be required.
- Our Application Renovation Center (ARC) experts manage the process to deliver high-quality, converted code into production on time, at competitive cost



Story of Client's Success

A \$5 billion publicly traded health and wellness retail company had an aging mainframe infrastructure that was approaching a costly potential upgrade / replacement, plus legacy software license fees were consuming a large portion of its IT budget. The goal was to reduce licensing costs while migrating to a new, more flexible platform without interrupting business or losing any functionality of the existing applications. After delivering a comprehensive assessment of the application architecture and technology inventory, a low-risk migration plan was designed to convert the applications to a Microsoft platform running NetCOBOL for .NET and SQL Server as the data store. The legacy code was converted, delivered, and tested within 18 months.



Client Challenges

Economic

- Cost of software/hardware
- Cost of labor/aging workforce
- Ability to support growth initiatives
- Budget pressure

Pace of Change

- Market/industry changes
- New technology capabilities
- New services to customers
- Regulatory changes

Performance and Risk

- Skills availability
- Customer expectations
- Security
- Lifecycle issues

Results

- Annual license fees were reduced from \$2.5 million to under \$500,000
- Rapid ROI on the modernization project
- Realized ongoing annual operating savings of more than \$2 million
- More than 4,500 COBOL and 100 Easytrieve programs converted
- Thousands of JOBs, PROCs and CONTROL CARDS addressed
- 800 Db2 tables and 14,000+ flat files converted
- Successful application cut over to .NET platform with SQL Server database
- More maintainable going forward to meet new business needs

Ensono's application modernization offering converts legacy programming languages to modern languages and legacy datasets to modern relational databases, giving a new lease of life to business applications. Modernized applications can continue to be run on mainframe, midrange and distributed legacy systems, or migrated and delivered on private or public clouds. Automated conversion is offered across more than 35 different legacy languages and 20 legacy data sources. To learn more about Ensono's consulting services, including application modernization, please contact your sales representative.

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