



# Legacy Modernization

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## WELCOME TO THE THIRD GENERATION OF LEGACY MODERNIZATION TOOLS

***UniqueSoft's D\*CODE tool suite transforms the way Systems Integrators analyze and modernize their clients' legacy systems.***

UniqueSoft's D\*CODE tool suite applies techniques borrowed from the worlds of Big Data and Artificial Intelligence to provide System Integrators (SI) with the ability to deliver high quality modern systems at a fraction of the cost of traditional methods. D\*CODE functions as a software engineering expert system to complement the domain knowledge of the SI by automating the most tedious and time consuming tasks. This frees up the SI team to focus on strategy and architecture issues.

UniqueSoft has a no trade-offs approach to tough modernization problems. Our automated, model-driven methods evolve existing systems to modern platforms and languages, extract business rules, migrate to new platforms, like the cloud, or adopt a microservices architecture. The flexibility of UniqueSoft's automated tools enables the customization of the results to the needs of the customer instead of forcing the solution to fit the tools.

### RECENT AUTOMATED MODERNIZATION PROJECTS

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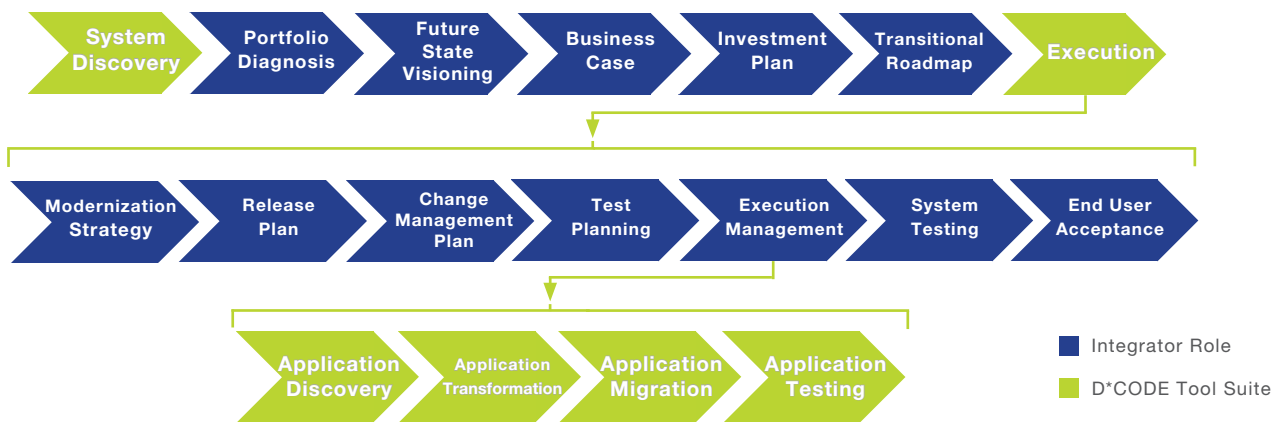
- Converted 4.5 million lines of Cobol to Java. Two previous attempts to use commercial "second generation" tools failed where D\*CODE succeeded.
- Extracted business rules from 8 million lines of Cobol for a US-based social services agency.
- Converted 14 million lines of SQL queries into parameterized Oracle stored procedures in PL/SQL. The new PL/SQL executed the identical queries when passed the appropriate information. Other tool vendors said that this conversion was impossible to automate.
- Modernized a 4-5 million line of code Java system that manages a country's social insurance program. Extracted business rules.
- Modernized a set of trouble ticket applications that totaled 175,000 LOC written in C++, VB, and SQL stored procedures. They were modernized to use Java, SQL, and rules using the FICO Blaze Advisor Rule Engine.

## UNIQUESOFT BENEFITS

- \* 90% Automation Resulting in Very Low Cost per Line of Code
- \* Adaptable and Scalable to the Needs of Each Specific Project
- \* Resultant Code is Easy to Maintain and Extend
- \* Extracted Business Rules Customized to Project Needs
- \* Intuitive Graphical Visualizations of Millions of Lines of Code

**D\*CODE'S PROVEN AUTOMATED METHODS AND TOOLS ENABLE SYSTEMS INTEGRATORS TO DELIGHT THEIR CLIENTS WITH FAST CYCLE TIMES, LOWER COSTS, AND HIGHER QUALITY CODE.**

## SI PARTNERSHIP STRATEGY/D\*CODE ROLE



## MODERNIZATION OFFERINGS

### Application Modernization

- Visualization & Discovery: Analyze your legacy code to develop a fact-based conversion plan
- Legacy Languages: COBOL and Java; others available on request
- Target Languages: Java and C#
- Migration to the cloud
- Conversion to a microservices based architecture
- Migration from an old version of Cobol or Java to a more modern version

### Business Rules Extraction

- Customize D\*CODE to obtain best level of rule detail
- Rules Identification
- Rules Extraction (either in high-level business terms or detailed technical terms)
- Rules Categorization
- Rules Gap Analysis and Reconciliation
- Rules Translation to Rules Engine Format

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