



COBOL Transformation

At Advanced we provide an automated solution, and proven expertise, to rapidly and successfully move your business-critical COBOL applications to highly maintainable Object Oriented and Cloud native programming platforms such as Java and .NET.

The Challenge

Your legacy applications are written in COBOL. While this has provided a very stable programming environment for many years, shortages of skilled programmers, increasing costs of compilers and licenses, and the need to converge your organization's technology base to drive Digital Transformation, means that continuing to use COBOL may no longer make sense.

- > COBOL resources retiring resulting in a lack of new resources to replace them
- > COBOL compiler and license costs drive up the cost of ownership for legacy applications
- > COBOL stands in the way of organizations, converging applications to Java or .Net

Our Solution

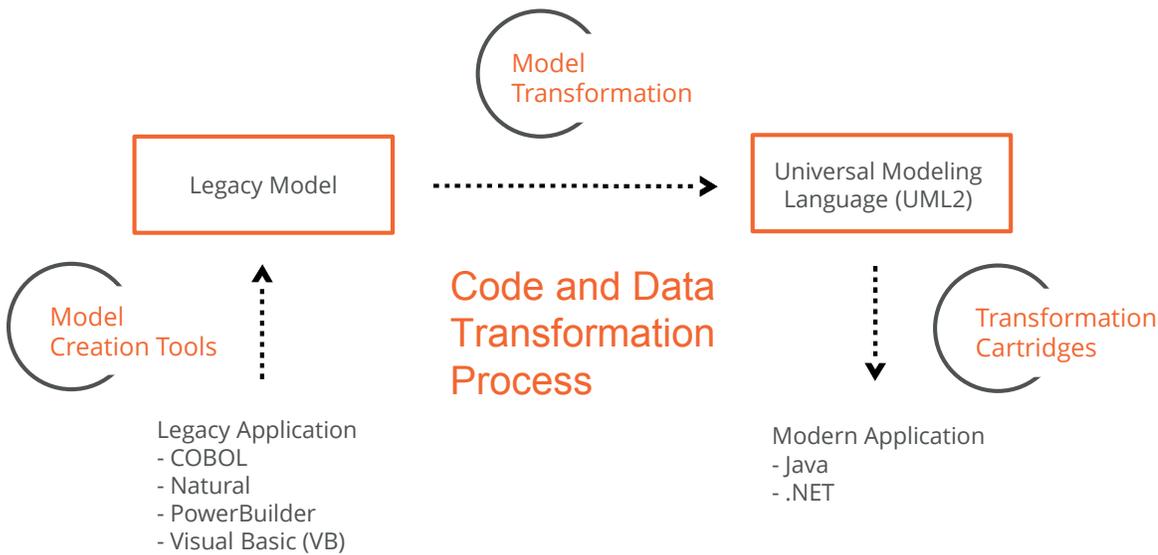
We provide an automated solution for transforming your COBOL applications into Java or .Net. Our unique approach to generating UML models from your COBOL source code and then generating new Object Oriented (OO) Java or C# from these UML models, allows us to provide a transformation that results in maintainable, truly OO code. This code can be easily developed and extended, and is delivered at a competitive cost and timeframe, compared to re-writing or replacing with off the shelf packages.

Benefits

Guaranteed maintainable java or .NET

Cobol is transformed into true object oriented java or .NET. our tool suite provides industry standard quality and maintainability metrics to ensure the new application is maintainable.

COBOL Transformation



Improve application sustainability

Transforming COBOL to java or .NET opens up the application to a new generation of development professionals, tools and add-ons.

Keep the business logic

Our tool suite keeps your business logic and intellectual property in your COBOL apps by transforming them into the same functionally equivalent code in Java or .NET. Your valuable strategic business processes are still intact, just in a more modern development environment.

Get your IT budget under control

By modernizing your COBOL applications to Java or .NET, you can converge your development on more standard and less expensive development environments and operating platforms. Legacy applications are a very complex mixture of business rules and technical code, which increases the cost of maintenance and makes every functional change complex. In many implementations, an inability to preserve deeply embedded business rules leads to cost overruns and project failures.

Gain agility

Your strategic business applications deserve both Cloud flexibility and access to mobile platforms. Our solution makes achieving this affordable and reliable.

Proven tools and methods to support the digital transformation of COBOL applications!

Our solution is a combination of automated and tool assisted transformation.

- > Java EE- or .NET-based architecture as you require
- > Functional and technological refactoring of source code and data
- > Like-for-like functional equivalence testing with continuous integration chain
- > No knowledge of COBOL programming language required
- > Automated and robust process with online workload calculations and controls
- > Generated source code free from runtimes and dependencies
- > Service-Oriented Architectures

Application Technologies

Supported legacy programming languages

Procedural languages:

COBOL, S-COBOL, T-COBOL, COBOL VME, Micro Focus ACUCOBOL-GT, Micro Focus COBOL

COBOL Transformation

Databases:

VSAM, IMS, IDMS, IDMSX, IDS/II, Oracle, DATACOM, DB2

Supported Java EE and .Net Frameworks

Java EE or .NET target frameworks:

Presentation layer: HTML5, AngularJS, SpringMVC, ASP.NET, JSF, JSF2, Struts

Reporting: Jasper, BIRT

Services and web services: CXF, JMS, AXIS2, EJB3, Microsoft Practices Unity, SpringCore

Services for batches: SpringBatch, WCG , SummerBatch

Data access and persistence layers: Hibernate, JPA2, Entity Framework, JDBC

Component for integration: JAVA APIs and .NET APIs
Security and authentication: SpringSecurity, JAAS

Application servers and cloud architecture:

Websphere, Oracle Application Server, WebLogic, Jboss Application Server, Tomcat, IIS, Azure, AWS, OpenShift, OpenStack, Cloud Foundry, vFabric

Targeted data bases:

Oracle, DB2, PostgreSQL, MySQL, MS SQL Server, Casandra, MongoDB

About Advanced

Advanced is a leading provider of innovative and pioneering modernization solutions, with hundreds of thousands of organizations worldwide using our products and services. Our aim is to enable our customers to increase business value and maintain competitive advantage by maximizing the potential of existing data and applications. This provides rapid return on investment, reduced costs, improved productivity and efficiency, and the ability to manage operational risk. With 30 years' experience, and expert staff dedicated to servicing the needs of organizations with legacy systems, we pride ourselves on a tailored approach to customer service. Major organizations including Deutsche Bank, Citi, Gap, International Paper, Chevron, Associated Wholesale Grocers, Genuine Parts Co., The Home Depot and many other well know firms have enjoyed the business benefits of an Advanced application modernization strategy.

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