Unisys COBOL to Java Federal Housing Authority CHUMS/CAIVRS/LOCCS Applications

CLIENT Federal Housing Authority	**SOFTWARE** CHUMS/CAIVRS/LOCCS	**LANGUAGE PAIRING** Unisys COBOL to Java	**COMPLETION TIME** 8 months

OVERVIEW

Using money from the Modernizing Government Technology Act's Technology Modernization Fund (TMF), a federal housing authority sought to modernize several of its remaining critical systems on a legacy Unisys mainframe. The Software Revolution, Inc. (TSRI), through system integrator Salient CRGT, successfully modernized more than 1.3 million lines of the client's COBOL applications, utilizing a flat-file DMS-II database, to an on-premises environment. TSRI implemented Java as the target language and a relational Oracle SQL Server as the target database at 99.67% automation.

HIGHLIGHTS

99.67% Automation

Low Technical Risk

Minimal Code Freeze

WHY THE HOUSING AGENCY CHOSE TSRI

Despite incremental upgrades or patches to the agency's decades-old mainframe applications, a dwindling supply of programmers made it increasingly difficult to maintain them. In addition, cloud computing would improve these mission-critical applications' reliability and security posture. TSRI modernized multiple applications for the agency that ranged from home underwriting management to a loan-delinquency reporting system. TSRI's automated approach to modernization meant they could provide high levels of accuracy with minimal disruption to the client's daily operations.

The federal government required adherence to quality and maintainability standards, so TSRI tuned its JANUS Studio® transformation and refactoring engine to generate the production-ready Java code. Finally, because TSRI could test the Java application alongside the mainframe still in production, the client shut down the legacy system during an extended federal holiday weekend and moved the Java application into production with next to zero code freeze.

PROJECT RESULTS

TSRI was able to show that a rapid, highly accurate modernization from mainframe COBOL to Java is possible on even critical, complex projects such as this, and that they can be completed and brought into production within the budget and timeframe constraints. With the implementation of a Software Maintenance Agreement, TSRI continues to ensure the updated systems run smoothly while the client can take advantage of framework updates and maintenance, as well as many other software support services.

TSRI

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