

Success Story

IBM ZOS RPL LANGUAGE MIGRATION TO COBOL FOR MISSION CRITICAL AUTOMOTIVE APPLICATIONS

SOURCE ENVIRONMENT

- IBM zOS
- CICS & IMS
- 12,000 MIPS
- 25,000 RPL programs (extended subset of PL1 and COBOL)
- 33 Million Lines of Code
- 266 DB2 tables
- 130 Files

TARGET ENVIRONMENT

- IBM zOS
- IBM Cobol

BENEFITS

- Obsolete language retirement
- zOS version upgrades
- 100% reuse of existing business logic

Client

RENAULT is a French automaker producing cars and vans. Its alliance with Nissan makes it fourth-largest automotive group. Together Renault and Nissan are leading electric car development among major car companies, investing 4 billion euros (\$5.16 billion) in eight electric vehicles over the next 3–4 years.

Project Drivers

The main drivers for the replacement of RENAULT's RPL language with Cobol were:

- Elimination of an obsolete language (extended subset of PL1 and Cobol) with disappearing skills
- Allow to zOS version upgrades not compatible with RPL
- Regain control of existing RPL applications

Key Requirements

The main requirements from RENAULT for the projects were:

- Reuse existing business logic
- Minimize project risks on core mission applications
- Obtain a fixed time and fixed price project
- Use Renault off-shore center in Chennai India to deliver part of the project

How Metaware helped

Metaware successfully delivered RENAULT's RPL Migration to Cobol. For the fixed time and fixed price engagement, Metaware was in charge of the following:

- Overall project management
- Development of the Refine RPL translator able to handle large volume of code (i.e., 33MLOC). Refine translator characteristics: 100% automated, precision on 10^{-5}
- Automated regression testing
- Knowledge transfer to RENAULT off-shore Chennai team on the Refine tools and Metaware migration methodology

Project Benefits

The main benefits gained from RENAULT's migration project were:

- Retirement of the obsolete RPL language and regaining control of the applications
- zOS version upgrades performed successfully

ABOUT METAWARE

Metaware is a global and complete legacy modernization solution. We provide transformation technology and delivery services for mainframe migrations, language & database conversions, and code agilization.

With over 200 legacy modernization projects delivered across 16 countries, we have consistently helped our clients reduce costs, replace obsolete technologies, and gain agility with a 100% success rate.

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