

## CASE STUDY

COBOL, Assembly, Fortran – MetLife U.S./Alico Japan

# COBOL, Assembly & Fortran MetLife U.S./Alico Japan

### CLIENT

MetLife US

### SOFTWARE

LifeComm Application

### LANGUAGE PAIRING

COBOL, Assembly, Fortran

### COMPLETION TIME

1 month

## OVERVIEW

After MetLife acquired Alico of Japan, the new owners realized that Alico's original LifeComm application written by CSC would require modernization to a new environment. To support the transformation, MetLife first needed to better understand the legacy application in its existing state. MetLife engaged TSRI to provide an *Application Blueprint*<sup>®</sup> of the LifeComm application using TSRI's automated *JANUS Studio*<sup>®</sup> solution, which resulted in fully hyperlinked HTML documentation of the existing software.

LifeComm had been written in a composite of several legacy languages that included COBOL, JCL, Assembly, and FORTRAN. The *Application Blueprint*<sup>®</sup> documented the legacy applications' existing code, which included design metrics, navigation indices, control flow diagrams, structure charts, data element tables, state machine models, state transition tables, and cause-effect graphs. TSRI's software engineers parsed and modeled all four languages within the application so *JANUS Studio*<sup>®</sup> could ingest the applications before generating each *Application Blueprint*<sup>®</sup>.

## RESULTS

After TSRI processed the entire 14,066,925 lines of LifeComm code through *JANUS Studio*<sup>®</sup>, MetLife used the resulting documentation to analyze and better understand the application they had inherited in the Alico acquisition. Following the successful completion of that task, MetLife engaged with TSRI to generate a *Transformation Blueprint*<sup>®</sup> on a subset of the 4,351,660 lines of Alico Assembler code, which targeted modern Java.

## HOW TSRI CAN HELP YOU UNDERSTAND YOUR SYSTEMS

- Visualize new data flows and data flows through your system
- Reduce operational & maintenance expenses from complex legacy systems
- Reduce the risk of critical system failure
- Free up highly specialized experts for other projects as you train new developers to support your system
- Efficiently prepare for a modernization or rewrite of your system – TSRI can help!

## HIGHLIGHTS



Near 100% Automation



Low Technical Risk



Multi-Language Assessment



SOFTWARE MODERNIZATION ASSURED

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