



AN AUTOMOBILE MANUFACTURER IN JAPAN

Highlights

Customer

An automobile manufacturer in Japan.

Source Platform

HITACHI mainframe
OS: VOS3

Language: COBOL, NATURAL
Data: Flat Files and ADABAS
JCL

Size

COBOL Batch programs- 19
COBOL Online programs- 1
NATURAL Batch programs- 4
NATURAL Online programs- 1
JCL- 15
ADABAS Tables- 10
Flat Files- 6

Target Platform

Windows 2003/
ORACLE 9i/ MF COBOL/ UNIX
Shell Scripts.

Team size

1 project manager with
3 team members and
1 Quality reviewer

Introduction

This was a migration project executed on behalf of Satyam Computer Services, Japan, for one of their customers. The customer was an automobile manufacturer in Japan. The project entailed migration of an application module, which was developed using COBOL and NATURAL.

The objective of the project was to bring about migration with minimum manual intervention, consistency in generated code and short project turn around time.

Besides the application migration, the scope also included migration of data from ADABAS database and Flat Files to ORACLE RDBMS. The scope of the project did not include any user interface, as it was re-engineered and converted beforehand by customer to Visual Basic Forms.

Challenges

- Transformation of Application running on proprietary Mainframe environment to open systems
- Migration of ADABAS to ORACLE 9i
- Bit data handling
- Handling of Japanese characters
- Conversion of EBCDIC data to ASCII

Solution Approach

A tool-based automated solution was used to transform the legacy source application in COBOL and NATURAL to MF-COBOL and remodeling ADABAS data model and Flat Files to Oracle 9i. JCL was converted to Unix Shell Scripts (which could be executed on Windows as well, using CYGWIN, which is a Shell emulator on Windows).

The solution has achieved near 80% automation. The data remodeling required some manual intervention.