Case Study – Migration from FUJITSU Mainframe M1600 to WINDOWS 2003

Highlights

Customer
A customer in Japan.

Source Platform
FUJITSU mainframe M1600 / ESP, XSP/ COBOL / RDB-II / SAM / AIM/TP monitor / Screens / JCL/CLIST

Target Platform
Windows 2003 / MS SQL Server / MF COBOL with .NET/ ASP Screens / Windows Scripting Host / C#

Team size
1 project manager with
3 team members
2 Tool Support and
1 Quality reviewer

Introduction
This was a migration project executed for a customer in Japan. The project entailed pilot migration of an application module, which was developed using COBOL, RDB-II database, SAM Files and JCL.

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 RDB-II database and SAM Files to MS SQL Server. The user interface was re-engineered and converted to ASP Screens with Windows Scripting Host and C#.

Challenges
- Transformation of Application running on proprietary Mainframe environment to open systems
- Migration of RDB-II to ORACLE 9i
- 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 to MF-COBOL and remodeling RDB-II data model and SAM Files to MS SQL Server. JCL was converted to Windows Scripting Host with C#.

The solution has achieved near 90% automation. The data remodeling required some manual intervention.