



AUTOMOBILE MAJOR IN JAPAN

Highlights

Customer

A Large Automobile
Manufacturer in Japan

Source Platform

Hitachi / VOS3 /ADABAS,
SAM / COBOL / NAURAL,
ASSEMBLER / JCL

Applications

Parts Consolidation, Order
Processing and part of the
Production Management
system

Target Platform

IBM / AIX
ORACLE 10g / Files
MF COBOL / Shell Scripts
For AIX

Application Volume

Three applications combined

COBOL– 2400 approx
NATURAL– 250 approx
Assembler – 30 approx
ADABAS files – 160 approx
SAM files – 4000 approx

Introduction

The customer has multiple applications running on Hitachi mainframe (IBM plug compatible) which included three applications a) Parts Consolidation (PCC), b) Order-To-Delivery (OTD) and c) a portion of the Production Management system (CATS). Due to various technological and cost constraints posed by these legacy hardware and software, client had decided to move these applications from Mainframe to UNIX based platforms while keeping the business logic unchanged. Migration of the three applications was executed as three different projects and was primed by Satyam. Metalogic provided the tool based transformation support.

Challenges

The major challenge lied in migrating each of these applications within a very short time frame. All the migrated applications required to be easily maintainable. The converted applications in the new target platform had to behave exactly the same way they behaved in the legacy platform. A few database fields were also expanded as part of the migration projects. Other modifications included moving the hard coded error messages in the programs to database tables.

Solution Approach

Metalogic had transformed these applications to modern platforms. The salient features of this solution were:

- The ADABAS database were converted to Oracle 10g
- NATURAL, COBOL and ASSEMBLER languages got transformed to Micro Focus COBOL
- JCL was converted to Shell Scripts on AIX
- Major portion of the work was executed offshore at Metalogic. The combination of automated, tool based approach and offshore delivery resulted in major savings in the project cost.

The solution achieved more than 95% automation in conversion and modification while near 50% in automation was achieved in testing.

The PCC and CATS conversion projects involved batch application components only. The OTD project included conversion of online portion as well and was redeveloped by Satyam.

Status

Migration of the first application was started in April 2006 and delivered in December 2006; the second one spanned October 2006 to August 2007 while the third application was started in December 2007 and complete on March 2008.

Participation from Metalogic Metalogic provided the service for tool based conversion of the application components followed by JCL level testing to ensure that the business functionality had remained unaltered after migration. Metalogic also provided defect removal support during IST, UAT and warranty. Satyam managed the projects as well as IST and UAT support.