



### LEADING MANUFACTURER OF AUTOMOTIVE COMPONENTS

## Highlights

### Customer

Leading manufacturer of automotive components

### Source Platform

VAX Basic with RMS on Alpha  
Open VMS

### Size

Approx. LOC- 1,80,000  
No. of Data Files – 46  
No. of Modules – 102  
No. of Reports – 70  
No. of Screens – 92

### Target Platform

VB.Net/SQL Server 2000  
Reports in Active Reports

### Team size

1 project manager  
1 project lead with  
3 team members and  
1 Quality reviewer

### Introduction

The customer is a leading manufacturer of injection moulded plastic components for automobiles. The customer has most of their business applications developed on DEC BASIC, running on Open VMS on Alpha.

There are two facets to the requirement – one arising out of technology obsolescence and the other arising out of changes in business operations. The solution essentially will need to address the issue in both these aspects and will require a combined approach. The objective of the project is to achieve the migration at an optimum cost.

### Challenges

- *Recover the flat file data model from the current application & convert it into a relational data model for hosting on SQL Server RDBMS*
- *Generate the DDL scripts for the proposed SQL Sever database*
- *Generate data migration scripts and utilities*
- *Checklist the interface points between the migrated components and the new functional enhancements*
- *Generate a new application programs on Visual Basic.net*

### Solution Approach

Automated, tool assisted migration of DEC BASIC programs to VB.NET and remodeling of flat files to SQL Server RDBMS with selective graphical interface for the Forms and Stored Procedures to run and modify reports independently. Data migration utilities have been generated through the tool for downloading data from the ASCII based flat files and uploading them on to the SQL Server database.

The solution has achieved 75% automation. The GUI screens required some manual intervention.