Company
Water & Sewer, Department
City Of Jackson, Mississippi
USA

Source Platform
BULL Mainframe/GCOS 8/
IDS II/TP 8/COBOL

Applications
Water billing application

Size
TPR COBOL & Batch
Prg – 216
IDS II Database with
29 Article & 118 Screens

Target Platform
RS600/AIX/
ORACLE 8/
Tuxedo
Oracle Pro*COBOL /
MF COBOL/
VB User Interface in Visual
Basic

Team size
1 project manager with
4 team members and
2 Quality reviewers

Introduction

Migration of the Water billing system for a city office in Mississippi, USA:
It involved migration of a critical application running on Bull/GCOS to IBM/AIX environment. TP/BATCH programs, along with database, JCL, copy files and Screens.

Challenges
The major challenges were in re-modelling the IDS II network data model to fit a relational database and meet the same performance level of the existing system. This required to be completed in a tight time frame, as the system was due for retirement. The other challenge lay in doing Y2K compliance.

Solution Approach
Automated, tool assisted migration of COBOL programs to MF COBOL and remodeling of IDS II data model to Oracle RDBMS, Tuxedo for TP programs, MF Dialog for Screens and Solaris shell scripts for JCLs. Data migration utilities were generated through the tool for downloading data from the BULL mainframe IDS II database and uploading them on to the Oracle database.

The solution achieved 80% automation.

Duration
The project along with archived data migration was completed in 6 months time.