

Client:

GPT HALVERTON (Now known as Internos Real Investors)

Industry:

Financial Services – Fund & Asset Management

Project:

Automated Test Solution For A Large SQL Server Data Warehouse Development

Programme Duration:

5 Months

Infrastructure:

Operating Platform: Windows XP

Database: SQL Server

BI Application: QlikView 8.5/9.0

ETL Tool: SSIS (SQL Server Integration Services)

Test Tools: QTP 10.0, Bugzilla

CASE Tools: MS Query

The Requirement:

The project focused on the delivery of a Data Warehouse system designed to satisfy an internal and external reporting requirement for property portfolio data. SSIS used as the ETL (Extract/Transform/Load) tool for the management of data transformations between the source legacy system (YARDI) and target system (SQL Server Database). Historical data reporting/end user reports created using QlikView.

MagenTys were given responsibility for all testing related activities for the project and provided a Test Manager and several Senior Test Consultants to deliver a test solution within an extremely aggressive timeframe.

Testing Requirements:

- Verify the DW is populated with correct number of records.
- Verify the data integrity of the DW (as per the business mapping rules).
- Verify the ETL process correctly rejects specific data.
- Verify the QlikView reports satisfy reporting requirements.
- Develop an automated regression pack for both DW and reports (QTP).
- Provide training to internal training to staff on regression pack.

Testing Solution:

- A risk based testing strategy developed due to aggressive timescales.
- Manual and automated test scripts developed for validation of DW using Active X ADO Object in comparing source data against target for initial and incremental loads.
- Created complex SQL queries to test data extract for both QlikView and Bank ICR Reports.
- Responsibility of updating data for QVD Cubes and QlikView reports from DW.
- A clear defect management process to manage test incidents.
- Business Analyst roles undertaken to bridge the gap between minimal documentation and knowledge.
- Development of QTP regression pack.

Benefits:

- Improved data quality of DW through rigorous testing.
- Significant improvement in quality and reliability of QlikView and Bank ICR reports.
- Re-usable automated regression test pack.
- Knowledge transfer and training to internal staff.