

## Automation Testing – Call Control Application

### How THBS helped

The Torry Harris test team developed an automated test suite, whereby 200 test cases were implemented without any manual intervention. For all new additions and enhancements, the automated test suite was used to test the updated code. The time required for testing, after changes were made to the code, was drastically reduced. The script included testing the product with simulators. The automation of test cases helped test engineers to quickly identify problem areas and report issues to the development team.

#### CLIENT BENEFIT

“The system could handle 120 transactions per second”

#### Scope of testing included:

- Test Planning
- Test environment setup
- Detailed schedule for each activity
- Test metrics definition
- Test Execution
- Automated test script execution
- Regression testing
- Integration testing
- Installation testing
- Defect Management and Reporting
- Defect tracking tool
- Status reporting
- Daily and weekly status updates

#### CLIENT

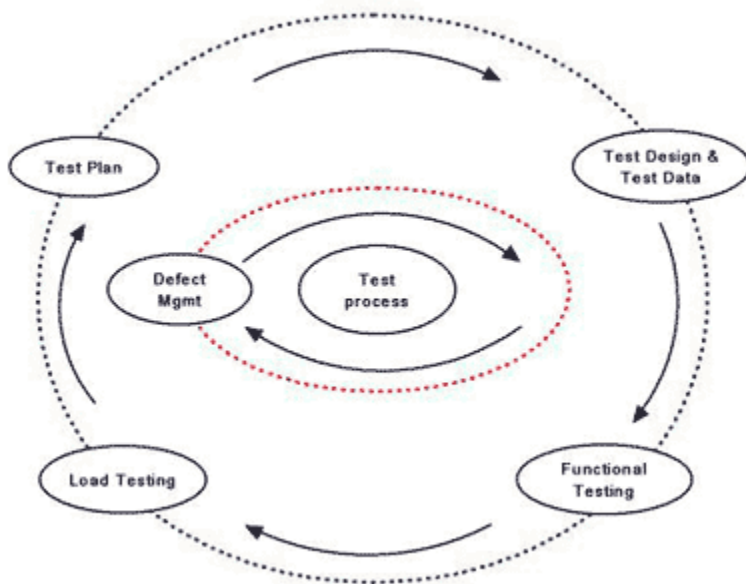
Telecommunications and banking verticals - Europe, USA

#### BUSINESS CHALLENGE

The client wanted a product that enabled mobile service providers to deploy value-added services like call control and service control on their existing transport layer. Since the application was designed to be an interface between the existing transport layer and external systems, it had to be highly configurable to suit different customer needs.

Project testing was a huge challenge owing to the highly configurable nature of the components. More than 200 test cases had to be cleared, for all possible permutations and combinations of configurations. All the test cases had to be automated so that any new requirements/additions could be tested in the shortest possible time. Before a new release was made, it was mandatory that all the automated test cases were successfully executed.

## Value Delivered



### The Outcome

- The application achieved very high performance results. It could handle up to 120 transactions per second, which was more than what the client had expected.
- The product enabled mobile service operators to feed business logic for call controlling in a very efficient and easy manner.
- Since all system tests were automated, testing became very easy for every new release and subsequent migration / upgradation activity.

### Tools and Technologies

- **Scripting tools:** Shell Scripts
- **Hardware:** SUNW, UltraSPARC-X, 8 GB RAM, 2x140GB HDD
- **Test Planning:** Open Office to plan and maintain test cases
- **Bug Tracking:** Bugzilla to report and manage bugs
- **Simulators:** Specific simulators were built to test the application.

### About THBS

Torry Harris Business Solutions (THBS) was founded in 1998 in New Jersey, USA. The company focuses on high-end, niche technical skills, predominantly in the middleware, integration and Service-oriented Architecture areas. It provides software services to enterprise clients across different industry verticals through a combination of offshore and onsite services. The company has offshore development centers in Bangalore (India) and Shenzhen (China) and Sales & Operations offices in Bristol (UK), Ireland, Munich, Madrid, Singapore, Dubai and Shenzhen.

The company has been CMMi Level 3 certified; for quality and maturity of processes. It has also been certified to comply with British Security Standards 7799 (now termed as IS 27001).