

## Case Study - QA Methodology & Tool Implementation

### Goals:

IQS was part of a large undertaking at a financial company which integrated two U.S.-based broker-dealers. IQS QA Lead was one of 15 teams participating that lead the testing activities as part of their Back Office applications within the project.

*The key issues identified by the Client were:*

- It was critical for the client to keep its security protected and the implementation of this large scaled project transparent to its business users and overall customers.
- The client needed support to meet an extremely aggressive deadline including development of prototypes, key components, a comprehensive code review and trade tests to validate product functionality. These systems needed to be systematically tested by an experienced and skilled quality assurance (QA) team to ensure a high quality product rollout process.
- In addition to Unit Testing, Functional and User Acceptance Tests. There were a number of rewrite to the requirements. This impacts the test cases and test scripts and breaks them when the code changes.
- Another challenge was keeping the tests manageable, traceable and foremost readable.

### Solution/Approach

- Implemented a comprehensive requirements, code and test case review process. Also, QA created a strong alliance with the development and business user teams to ensure Unit, Functional and UAT testing were in sync.
- Developed a QA methodology and applied it for the Implementation of new applications and system upgrade rollouts.

- Designed and implemented a robust QA manual and automated testing strategy.
- This was the motivation to use HP Quality Center to create a one stop resource that allows QA /UAT to write test cases and test scripts in the language of our client's business rather than in a technical jargon.

### Results:

- Implementation of QA methodology and the following benefits by using HP Quality Center:
  - Improved quality management process/improved efficiency
  - Management Reporting/Dashboard
  - Manage and create traceability between requirements, tests and defects
  - Test Management (Test Plan & Test Lab) and Defects
  - Integrate with HP functional testing tools
  - Manage and execute manual/automated testing
  - Provide a balance of structural design
  - Reduced risk across the application lifecycle
  - Improved delivery time of applications to production
  - Reduced cost of testing