

## Case Study

A leading investment services firm adopts an automated regression testing solution to reduce the risk of serious defects

**Client:**

A Leading Investment Services Firm

**Industry:**

Financial Services

**Service Offering:**

**Component Services**

- Application Services
- Quality Assurance & Testing
  - Test Automation
  - Framework Development



**The Situation:** A leading investment services firm is constantly upgrading its systems to meet the demands of the dynamic financial services market. The result has been an increasingly complex system that exists to properly route real-time transactions to a complex set of legacy and third-party systems that support accounting and other back-office operations. As the complexity has increased, the ability to test all the permutations of the system has diminished. While the developers test new and changed components prior to release, there is no routine testing of unchanged components to ensure that they have not been adversely impacted.

**The Challenge:** A growing realization existed within the firm's management that the risk of serious defects in untested components increases with each release. Therefore, the need was identified for an automated regression test suite that could automatically record and store thousands of types of transactions for future playback during release test cycles. An RFP was issued for custom development of an automated record and playback system.

**The Response:** TEKsystems®, a premier provider of technology staffing and services, was able to respond to the RFP through its QA & Testing Center of Excellence with a proposal to use off-the-shelf software as the basis for the firm's regression testing system. The proposal would save the firm hundreds of thousands of dollars in development expenses and shorten the time for implementation of a solution. In addition, the firm would benefit from the use of third-party software through reduced maintenance expenses and the improvements that are built into the software over time.

A pilot project was conducted to establish a framework for implementing an off-the-shelf program. During the pilot, TEKsystems developed an automated regression test plan, installed automated test tools in conjunction with their tools partners, and created a framework for capturing, recording, and playing back middleware message-based transactions. In addition, TEKsystems was also able to create and execute sample test scripts based on the framework.



**The Result:** As a result of TEKsystems' engagement, the client recommended further development of the automated test suite based on the framework established during the pilot. The client projected savings of several hundred thousand dollars which more than offset the cost of the implementation in the first year.