XML API Testing
Process and Tools

REACH NEW HEIGHTS WITH THE RIGHT PEOPLE, PROCESSES AND TOOLS.

OUR COMPANY:

Systemware Professional Services is a woman owned information technology consulting company founded in 1991. As a privately held company, our business decisions are predicated on long-term objectives that result directly from our understanding our client's goals. Our mission is to earn a trusted partnership with our clients and consultants by solving critical business problems with innovative technology services delivered by a team of talented, energetic and passionate professionals.

SystemwarePS is an Equal Opportunity Employer

Women's Business Enterprise National Council
WBENC

CLIENT: Software solutions partner of choice for eight of the nation's top 10 financial institutions.

SITUATION:
This client develops a versatile loan origination system with a sophisticated and flexible decisioning engine backend. However, access to the decisioning engine is through an XML application programming interface. Limited unit testing could be performed prior to system integration. Because the decisioning engine is configured for each client, combined with the cumulative impact of growing compliance regulations, the implementation was constrained by the amount of testing required by their customers. Senior management decided they had to find a solution to reduce time to market and improve customer return on investment.

SOLUTION:
Systemware Professional Services conducted a comprehensive analysis of the current process and tools available. By partnering with the client's business analysts, developers and management, SystemwarePS determined the most cost effective and efficient method to improve their processes and tools while meeting their aggressive development timeline. After providing several recommendations and options, SystemwarePS developed a comprehensive framework of testing tools and an accelerated process:

- A powerful set of XML management tools to permit simple test case design which allowed non-technical resources the ability to create, modify and automate unit tests quickly using Excel
- An extensive set of test cases developed in four months
- A multi-threaded regression test suite that provided developers with a quality control measure for all code releases
- Dynamic execution report mechanism that allowed developers, testers, and integrators to identify and resolve problems quickly

RESULTS and BENEFITS:
SystemwarePS enabled the client to reduce testing time, increase quality, and streamline the time to market for their products. The new process allowed customers to configure the product and associated test cases while ensuring the products quality and complex compliance requirements were satisfied. Using the new solution, the client estimates time to value for the typical implementation has been reduced by 80%.