

Testing new-age applications built on Service Oriented Architecture

Voice of Customers

"My enterprise applications involve heterogeneous web services maintained by multiple vendors. How do I build a comprehensive regression suite to ensure the integrity of these applications due to the periodic changes of multiple web services?"

As your enterprises use SOA to integrate disparate systems into cohesive business processes, the need to effectively test these applications built on SOA is critical. Extensive testing of web services is essential to securing the enterprise from significant business risks.

SOA testing is quite complex as it requires the testing of interfaces and services that might bring together diverse systems and platforms, in addition to performance and security related issues.

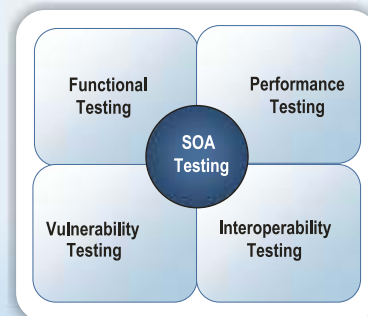
Cognizant Solution -SOA Testing

Cognizant's vast testing experience and state-of-the-art research combine to offer Independent Verification & Validation service for SOA-based applications.

Cognizant adopts a comprehensive tool-based message-driven test approach for SOA testing. This facilitates application to application communication across multiple layers of the technology stacks.

Cognizant's time-tested agile and iterative execution methodology plays a crucial role in ensuring shorter time to market in testing of SOA-based applications. This iterative, incremental process is designed to verify and validate all business scenarios. Cognizant's Business Analysts ensure that the SOA testing requirements and test plans have a business flow flavor rather than being simply component centric. This facilitates wider coverage while improving interoperability.

Cognizant's proprietary tool WSTest Professional enables GUI-based record/playback automation as well as framework-based automation for testing of web-services thereby reducing effort, time and cost involved in testing of SOA-based applications.



SOA Testing

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Business Benefits

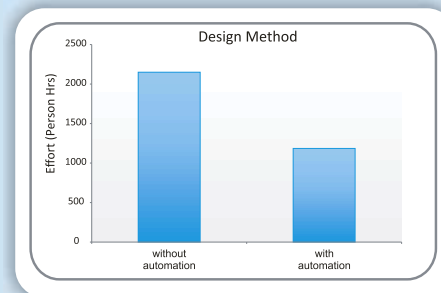
- Tool driven approach, extensive reuse and recombination of test artifacts using workflow engines reduce time to market
- Automated testing ensures improved efficiency and increased productivity.
- Testing framework aligned with development methodology for better process management
- Complete coverage reduces business risks and complexity.
- Leveraging Cognizant's internal expert groups like the SOA CoE, Global Technology Office (GTO) and IT support enables recommendation of the right roadmap with an efficient test strategy.

A leading US based Insurance firm engaged Cognizant to offer enterprise wide SOA testing. The Client had a large number of department specific solutions on different platforms like COBOL, Web Sphere, COM.

Cognizant initiated Enterprise-wide application integration initiative to link various business units and adopted XML based communication for cross platform inter-operability. Web methods Adapters were used for integration with back end applications. Unit testing and Integration testing was performed, with regression suites enabling automation.

Client Benefits

- Tool-based message-driven test approach to verify heterogeneous web services for correctness and completeness
- Over 40% reduction in test script design and 35% scripts were reused providing significant cost benefit to client



Cognizant
Passion for building stronger businesses

World Headquarters

Cognizant Technology Solutions
500 Frank W. Burr Boulevard
Teaneck, NJ 07666
Phone: +1 201 801 0233, Fax: +1 201 801 0243
Toll Free: +1 888 937 3277
Email: inquiry@cognizant.com