

Robust Testing Practices to Face Challenges



High quality software is a precondition for strong brand building and customer confidence. At the same time, developing software that is zero defect and adheres to the highest global quality standards is a task fraught with challenges.

The fact is that Testing has now become a very demanding process, owing to greater complexities being introduced by technology, software sourcing, compliance, security and other issues. Adding to the concerns is the paucity of manpower that is equipped with advanced domain knowledge, process know-how and client management skills to successfully undertake the task of software Testing.

While organisations around the world have attempted to establish in-house Testing capabilities, due to intense competition and a

relentless squeeze on margins, they have been compelled to reduce IT budgets and spend less on Testing efforts. This trend has in turn spurred a new one—companies outsourcing their software Testing activities to third party Testing services vendors equipped with proven methodologies, cutting-edge technologies and tools, skilled resources and robust frameworks to capitalise on cost.

Need for Testing

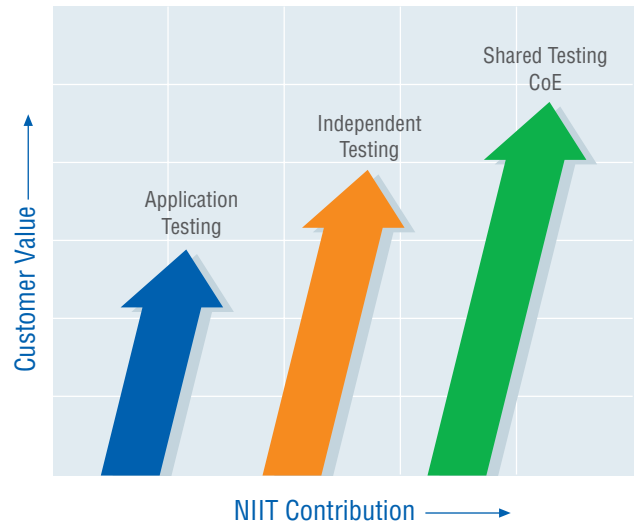
Meanwhile, here's why Testing is so critical to the software development process. The Testing phase comprises of a substantial part of the software life cycle. With little or no Testing capabilities, organisations carry the risk of increased failure, substantial waste of time and manpower in re-work, higher maintenance costs and customer dissatisfaction.



In order to overcome this problem, it is an imperative for software development firms to have Independent Verification and Validation Teams (IV&V). Clearly, Testing is now considered a distinct field. It requires in-depth knowledge and a holistic approach that maps the process to ensure effective validation and quality control so that the development team does not rush to meet deadlines with costly errors.

"Application Testing Services Are Becoming a Distinct Practice"
-Gartner, November 2008

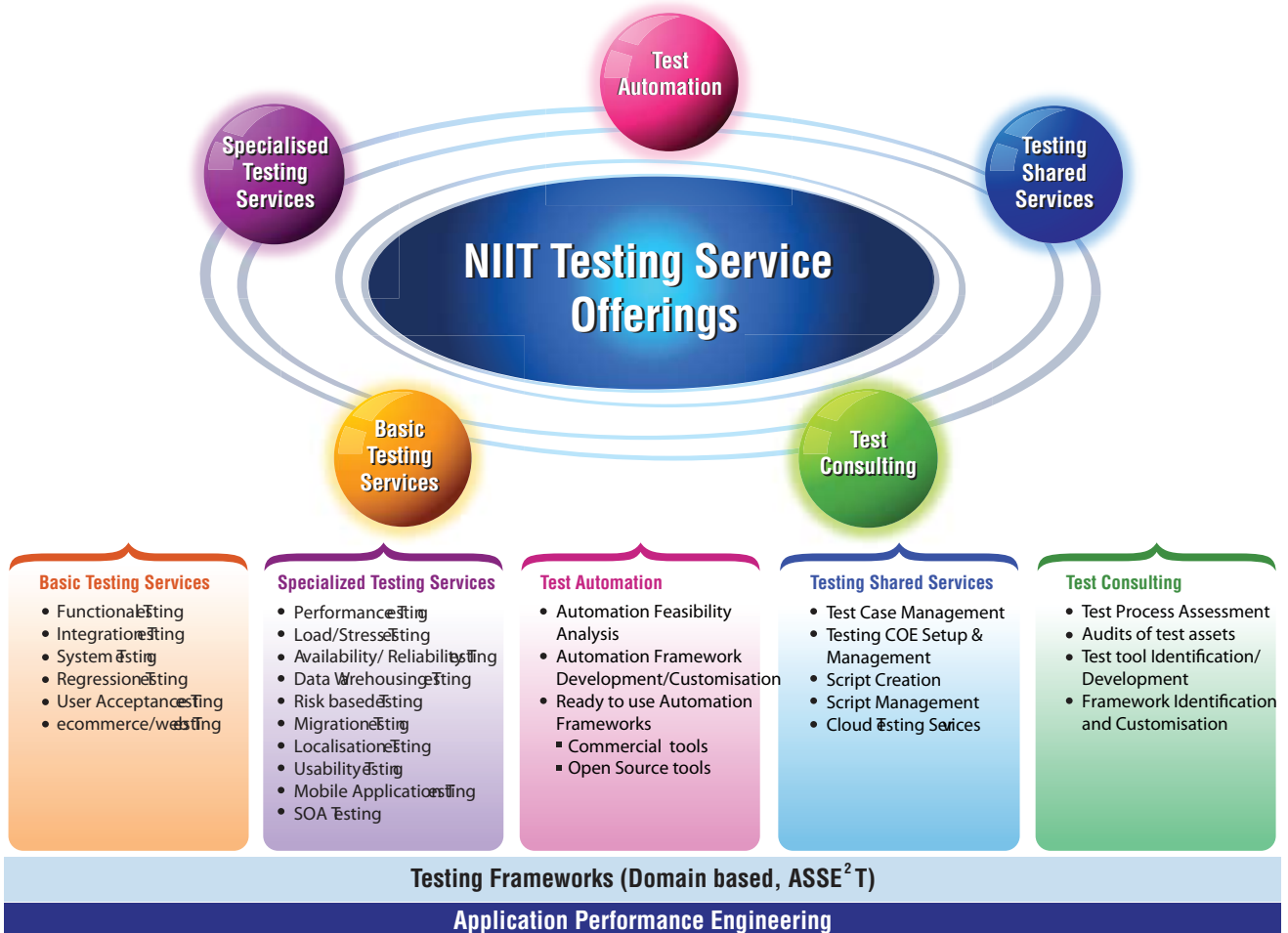
Gartner, in one of its recent reports, has referred to NIIT Technologies as an application services provider that has recognised the growth and high demand of testing services and created a distinct and separate testing practice to address the segment.



Service Offerings

Acknowledging the high potential of the Testing services marketplace, NIIT Technologies has set up a separate business unit to address this opportunity. It offers a complete set of Testing services—from basic Testing requirements to specialised Testing services to delivering framework-based tailored solutions.

Basic Testing Services: NIIT Technologies has rich experience in performing standard Testing procedures critical to all organisations. These enable organisations to measure their products on a "Meets requirements" scale.





Specialised Testing Services: These include both technology specific Testing and tests that help organisations gauge the performance, availability/reliability and usability of their systems. These services are crucial in providing a rich user experience and imparting an edge over competitors.

Test Automation: NIIT Technologies has a range of proven automation Testing frameworks (commercial and open source tools) that address the three critical dimensions of a project—time, cost and quality. NIIT Technologies recognises the rising needs and priorities of organisations when it comes to setting up automation Testing capabilities and NIIT Technologies' Automated Simplified Structured End to End Testing Framework (ASSE²T) are designed to suit these specific needs.

Testing Shared Services: NIIT Technologies' solutions include sharing of resources and tools across projects, thereby reducing the total cost of ownership for such clients.

Test Consulting: NIIT Technologies' vast exposure in the Testing arena and years of hands-on experience has enabled it to help organisations define their test processes and tools and identify the Testing setup most suited to them from a practical and cost-effective viewpoint.

Value adds @ NIIT Technologies

NIIT Technologies brings the following benefits to customers seeking Testing solutions:

Proven Methodologies

- Adaptive to legacy and modern software development methodologies
- Proven track record with over 50 satisfied global customers
- Expertise in Testing based on its experience of executing over 1000 projects
- Seamless integration of Testing process with the software life-cycle

Technology and Tools

- Expertise in all major commercial and open source Testing tools
- Experience on the latest technologies like Web 2.0, Security, SOA and Mobile
- In-house developed automated Testing tools

People

- Skilled professionals for various levels of assignments
- Industry certified test specialists—CSTE, CSQA, ISTQB, etc.
- Industry certified domain specialists

Test Frameworks

The dynamic environment is compelling organisations to release products and applications quickly, without compromising on quality. This had led to shorter release cycles and the need for extensive usage of frameworks and tools. NIIT Technologies offers both tool-based and domain-based frameworks to suit your requirements. It also provides a scenario analysis to users, which facilitates the appropriate selection and usage of frameworks to gain maximum ROI. NIIT Technologies' frameworks offer the following advantages to customers

- Faster turnaround time—test execution cycle time reduced up to 80 percent
- Domain based test case repository—helps to reduce test case design efforts up to 40 percent
- Considerable reduction in resource costs
- Reduced Total Cost of Ownership for Testing

A Reliable Partner

Organisations can leverage NIIT Technologies' immense experience in managing large and complex Testing engagements worldwide to optimise Testing investments, enhance productivity and significantly improve software quality. As a technology partner, NIIT Technologies offers:

- End-to-end Testing capabilities that enable early error detection, quicker resolution and reduction in development hours
- Proven world-class QA processes and reusable delivery assets, designed to reduce effort and enable a faster turnaround. Expertise across multiple Testing tools, creating a one-stop solutions window for all Testing requirements
- Clearly defined SLAs that ensure continuous service delivery improvement
- Dedicated, scalable highly experienced resources with test automation skills
- A proprietary knowledge management solution "MATRIX," with a workflow used in shared test management and value addition throughout the life cycle of the project
- Thought leadership in the market, owing to active participation in Testing forums, acknowledgment of the company's white papers and presentations, investments in test frameworks, and creation of best practices and solutions

Customer Successes...

"I congratulate the team for their excellent performance for the work...the test results have clearly shown that there are zero A-defects in the software submitted from NIIT. You did a great job. The experience with the team is a solid basis to continue our relationship... we expect more masterpieces."

-VP, A Global Insurance Services Company

"...the ATSE (content testing) project... with limited design documentation... the team has done an excellent job! Accepted every challenge, made every effort to understand the functionality and has been an asset to our team! Being inquisitive and creative during test execution helped uncover bugs that would not be found by executing standard test cases."

-Test manager, A US based travel Distribution Company

About NIIT Technologies

NIIT Technologies is a global sourcing organisation, providing services to customers in North America, Europe, Asia and Australia. We provide services in Application Development and Management, Enterprise Solutions including Managed Services and Business Process Outsourcing to enterprises in the Banking and Financial Services; Insurance; Travel, Transportation and Logistics and Retail and Distribution sectors. We work with our clients to provide them futuristic solutions on diverse platforms. Our technology expertise and business understanding ensures efficient, scalable, secure and robust solutions that are tailored to the needs of our clients. We have been providing testing solutions for more than a decade, we have developed processes, tools and frameworks that are relevant and proven and provide an ideal foundation for building Testing capability and delivering tailored solutions.



Trust us to find the way

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