



We are in an age of rapid product lifecycles and minimized production costs. In this faster cost effective approach, testing is often not given the right amount of time and focus, and the result is usually a lesser quality product.

In an age when product managers are striving to reconcile or balance the requirements of rapid product lifecycles with lower production costs, testing goes out of focus. The result is usually a product of lesser quality that eventually demands added costs to fix.

In the Gaming Industry especially, faster schedules and lower costs are greater challenges given the speed of product release and intensity of market competition. Rapidly changing technologies add significant complexity to delivering successful products. The completion of development and testing of games within time and budget is crucial for gaming companies to be competitive.

### Overview

Sierra Atlantic offers innovative manual and automated testing services to gaming companies worldwide. We take the guess work out of your gaming projects.

Our Gaming Vertical is focused on the industry trends and technologies deployed within the industry. When you partner with us, we help you integrate the latest advances in production, deployment, testing, and support techniques that are critical for you to be competitive in this fast moving space.

At Sierra Atlantic, we invest in technologies and processes that ensure our clients get the highest levels of productivity and the fastest time to market with quality products at the lowest possible costs. In gaming, this includes the development of test frameworks for game automation and game integration into common games management platforms. In addition, we have accelerators for front-end and back-end integration into enterprise applications including solutions for payment gateways and integrations.

Each project is analyzed and broken down into micro level tasks to provide time specific milestones. This process makes test case and scenario building easier and allows faster development, integration, and deployment strategies.

### Service Offerings

SATIN Service Offerings		
Managerial Services	Professional Services	Service Segments
<ul style="list-style-type: none"> <li>- Process gap analysis</li> <li>- Process definition</li> <li>- Test planning</li> <li>- Cost optimization</li> </ul>	<ul style="list-style-type: none"> <li>- Functional testing</li> <li>- Performance testing</li> <li>- Interoperability testing</li> <li>- Appliance testing</li> <li>- Process automation</li> <li>- Test automation</li> </ul>	<ul style="list-style-type: none"> <li>- Customer application</li> <li>- Enterprise application</li> <li>- Software products</li> </ul>

### Manual Testing

- Black Box Testing: Functional, Regression, Compatibility, Installation, Usability, and Upgrade testing
- White Box Testing: In-line testing, JUnit, Design and Code reviews

### Test Automation

Is there an answer to the question, "Can we do more with less?" in testing? Yes, there is – Test Automation. The purpose of automating testing is to make tests run faster, cheaper, and reliable by removing human errors and exploiting repeatability in automation. We have automated up to 70% of regression testing for our clients.

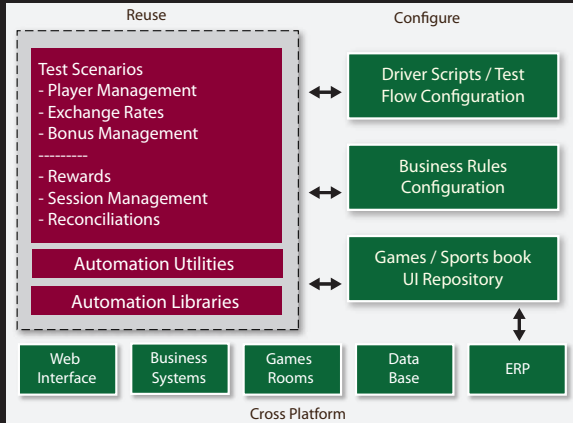
Sierra Atlantic follows a framework-driven approach to Test Automation:

- Independent automation framework which forms the base of the automation test scripts development.
- Separate frameworks for general applications, web applications, ERP Apps and Flash games.
- Customizable frameworks according to the application needs, with minimal changes and effort.
- Building a completely new framework if needed for applications, which are built on new technologies

### Testimonials

" The initiative of automating Jackpot is a success. What used to take 2 to 3 days only takes 2 to 3 minutes now. Impressive! "

- Axell Klas  
Boss Media



- Reusability**
- Pre-built Automation code comprising of common Functional Test Scenarios
  - Automation utilities, Libraries to navigate/replicate user movements and clicks
- Configurability**
- Pre-built Business Rules and Test Flows templates for easily configuration
  - Modularity enhances ability to reuse at various components at multiple levels
  - Reduces complexity to maintain / enhance
- Cross Platform**
- Cross platform Centralized UI repository to reduce dependency on Application and/or Automation tool upgrades.

Sierra Atlantic's Game Test Automation Framework

**Game Testing**

Sierra Atlantic is a leading partner of choice in the gaming industry. We provide test and test automation services to companies such as Boss Media, Finsoft, and Sportingbet. We use a variety of tools including QTP, Selenium, and proprietary in-house tools combined with a framework and a proven global delivery model. We ensure that there is no disruption to our clients' delivery schedules through process methodologies incorporating best practices from previous engagements. Our SLA-driven, metrics-based approach enables progress tracking by executive management and client stakeholders at any time during the project. We invest significant resources every year to develop key frameworks and automation suites providing our clients with productivity, quality, and time to market advantages. We offer end-to-end testing services tailored to gaming applications - from site registration to backend integration - as mentioned below:

Game Play Testing		Localization Testing
- Registration	- Multi-player (online and offline)	- Testing of in-game text and audio including overlapping text, language and grammar.
- Functionality	- Interactive video game testing	- In-context terminology
- Rule adherence	- Deposits	- Proofreading for packaging, manuals and websites
- Wins & Losses	- Withdrawals	- User documentation checking
- Single player (online and offline)	- Gaming management system	

We have developed a proprietary framework for automating flash games. In the process, we have overcome challenges such as object identification, text recognition, and sync issues during the framework development allowing us to closely mimic user scenarios. This solution does not need flash variables or methods to be exposed making it ideal even for providers who host third party games. Our solution does not need any additional third party add-ins, resulting in low cost. Sierra Atlantic is developing solutions for multiplayer games and on screen value identification issues in games with fancy fonts and backgrounds. We expect this framework to be available in February 2010. We invite you to take advantage of Sierra Atlantic's unique expertise in gaming.

Sierra Atlantic's Value Addition & ROI				
	Manual Testing	Conventional Test Automation	Sierra Atlantic's Automation Framework	Cost Reduction
Framework Development		112	50	55%
Automation Scripting		60	40	33%
Maintenance Effort		25	15	40%
Traditional Manual Testing	20			
<b>Total</b>	<b>20</b>	<b>197</b>	<b>105</b>	
Releases Before ROI:		10	5	

- Minimal disruption to business as usual
- 40 - 45% reduction in Test Automation development
- Break even achieved in 5 test cycles

Estimation in person days based on our experience testing 10 games

**About Sierra Atlantic**

Sierra Atlantic is the leader in off-shoring enterprise applications and outsourced product development. With expertise derived from deep R&D relationships with enterprise software leaders such as Oracle and Microsoft, we provide full lifecycle product development and IT services including implementation, integration, development, testing and support. Sierra Atlantic is amongst the largest IT services companies, offering services in the "New Oracle Economy", Outsourced Product Development and Microsoft competencies, with global delivery from both India and China. Over 200 active customers currently address their business needs leveraging our Nshore™ methodology and best-in-class Global delivery capabilities. A recognized leader in quality, Sierra Atlantic has been the recipient of many distinguished awards including Oracle Partner of the Year (3 years consecutively), Microsoft Gold Certified and NXT Delivery Partner, IDC DQ Top 20, and Great Places to Work. Sierra Atlantic is headquartered in Fremont, California and maintains operations in 16 countries across North America, Europe and Asia Pacific. For more information, please visit [www.SierraAtlantic.com](http://www.SierraAtlantic.com).

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