



## Games Testing Case Study

# Testing Strategy for Games

**Testimonials:** "Working with STC Third Eye has been a satisfying experience for us. We are highly impressed with their professionalism, ability to understand our requirements and meet our deadline. We recommend STC Third Eye as a reliable offshore testing solutions partner"

-Project Manager (Gaming Solutions)

## The Customer

The client is a diversified, worldwide gaming company that designs, manufactures, operates and distributes slot & video machines and PC based gaming solutions to a global gaming industry that includes casino, racing, video and lottery. It also designs, integrates and sells highly specialized computerized monitoring systems that provide casinos with networked accounting and security services for their gaming machines worldwide.

## Industry Challenges

Game testing seems like a dream job for many testers, testing solid games is far from child's play. Even though games are hardly mission-critical applications, the gaming industry simply cannot afford to release buggy software. Faulty software could decimate a brand's reputation and profits because gamers do not forget an error or a bug in a game when they purchased it. Moreover, software errors place the organization under a significant financial burden. With the concentrated development of sales cycles that are common to most game development organizations, any unexpected debugging and reworking can cause delays that have severe financial repercussions on advertising, promotions, shipping, etc.

## Situation

The client was preparing to launch their video game software into the European and North American markets and needed fast and cost effective quality assurance testing services for game software. The new gaming system was set to launch in North America first, and later on in Europe. The company required functionality testing services for each game title and every subsequent version. With such an aggressive product delivery schedule, the client needed an Independent testing service vendor with large team of highly skilled game testers.

## Solution

STC Third Eye provided a complete functionality testing solution for game software to ensure the client released a fully-functional product on markets to meet their aggressive product launch schedules worldwide. We built test plans, test cases and produced the necessary testing checks such as: collisions, players, attributes, menus, events, buttons functions, scoring / statistics, the use of digital and analogue modes, Game logic testing, game pad effects, animation frame rates, and multi player facilities. We also successfully conducted game localization testing with the help of STC's experienced language translators

## Areas of Expertise

- Game play testing
- Online and network testing
- Console certification testing
- Localization testing
- Multi-platform capability
- Compatibility testing
- Usability testing
- Defects database management

## The Game play testing

- Functionality
- Artificial intelligence
- Multi-player (online and offline)
  - Including MMO
- Rule adherence
- Single player (online and offline)

## Multi-platform capability

- PC
- Macintosh
- NTSC and PAL
  - Nintendo
  - Sony Play station
  - Microsoft X-Box
- Handheld devices
- Wireless devices

## Compatibility testing

- Customized modular systems
- Scalable number of combinations
- Software compatibility
- Operating Systems
  - Browsers
  - DirectX
  - Drivers
  - Third Party Software (Media Player, WinDVD, Flash, etc.)
- Hardware compatibility
  - Video Cards
  - Sound Cards
  - Processors
  - RAM
  - Motherboards
  - DVD and CD ROMS

## Online and network testing

- Multiple modalities
  - T1
  - DSL
  - Dial-up
- Packet examination and prioritization
- Timing
- Wireless and wired environment
- Security

## Console certification testing

- Compliance - NTSC/PAL
  - Microsoft – TCR
  - Sony – TRC
  - Nintendo – Lot Check
- Handhelds
- Peripherals

## Usability & Localization testing

- User viewpoint testing
- User documentation testing
- Text translation
- Text verification
- Voice translation
- Voice verification
- Local naming conventions
- User documentation checking

## Customer's Benefits

- Meet your release date — create a stable, predictable process and stop rushing to meet milestone and release date.
- Reduce risk — Improve testing coverage, find bugs before your customers do. Ensure game stability and ship a finished game
- Increase revenue per gamer by offering the services gamers want.
- Reduce the risk associated with launching new games.
- Optimize game performance without increasing capital costs

## About STC

STC ThirdEye Technology (India) Pvt Ltd, is India's largest Independent software testing organization providing End-to-End testing Services We build and operate dedicated India-based testing centers for our customers with the latest computing and data communication technologies, and deliver our services, with high standards of security and confidentiality. Consistent qualities of deliverables under compressed time schedules enable us to get repeat business. We help Fortune 500 ERP, BFSI, Healthcare, Gaming and Telecom solution providers We are ISO 9001:2000 certified organization. For more details, please visit us at [www.stcthirdeye.com](http://www.stcthirdeye.com)