

SPECIALIST PERFORMANCE ENGINEERING FOR E-GAMING

THE TEST PEOPLE:

Based upon our extensive experience of delivering performance engineering solutions to the **E-Gaming sector**, The Test People (TTP) have created a focussed team to deliver tailored performance improvement services.

Coupled with this we provide a Test Service around Manual Testing and Test Automation to make us **the all round E-Gaming specialist service company**.

Over time TTP have witnessed the industry offering ever wider market trading opportunities with gambler to gambler in-play trading. This requires the development and implementation of faster and more complex applications that are required to be robust under huge load and maintain ultra low transaction response times. There is also a reliance on great quantities of third party data that adds significant load to the infrastructure and applications.

OUR EXPERTISE COVERS ALL ASPECTS OF THE E-GAMING TRADING, SPECIFICALLY:

- In-Play Push Technology Systems
- Sportsbooks and Gaming Websites
- Feed Driven Trading
- Financials Trading
- Content Management Systems

TO MEET THESE CHALLENGES, THE TEST PEOPLE HAVE:

- Built and developed tools that apply representative load to pushed in-play broadcast systems and monitor the spread of delays between clients receiving updates
- Advised how applications could be changed and data loaded more efficiently leading to substantial improvements in the performance of the target applications
- Developed a framework allowing the rapid load testing of systems with RIA clients. The framework provides a user-friendly XML interface to any standard load testing tool
- Created a tool to clone large amounts of market data allowing the rapid set up of test data
- Developed tools for performance engineering the financial instruments e-gaming product

UNDERSTANDING THE UNIQUE CHALLENGES THAT MUST BE OVERCOME TO DRIVE APPLICATION PERFORMANCE IMPROVEMENT:

- Modelling, simulating and injecting market data providers to gain a deep understanding of how applications react under various load levels
- Creation of truly representative user journeys and transaction models to accurately replicate system usage
- Monitoring and accurate recording of broadcast speeds to end users to determine fan out and accuracy of market data broadcast solutions

Taken together these deliveries have allowed our clients to performance test their highly complex systems where they previously had no ability to load test at all.

Our expertise has enabled our clients to take a lead within their industries using our services for innovation when standard Performance Testing approaches just cannot deliver.

TTP are at the forefront of "Cloud Based" technology and have utilised it to build test environments for performance tuning of software before installation to a "live like" performance test environment.

QUALITY WITH TESTING, TESTING WITH QUALITY

This coupled with the building of numerous test harnesses and tools has allowed the rapid creation of performance test environments fully loaded with data to allow the core applications to be truly load tested. This approach lends itself to performance test modelling where simultaneous performance tests can be executed on varying versions of the application or differing configurations so that the performance of each can be compared in a like for like manner.

Using our toolset, either standalone or with commercial tools, we can significantly increase ability to stress the application under test whilst reducing the huge license costs involved when asking for more virtual users and plug ins. We are also completely tool agnostic. Whichever tool is best for the job when all is considered, we'll use it.

THE TEST PEOPLE HAVE CREATED TEST HARNESSES FOR:

- Betfair (Data modelling for the Betfair API)
- SPIN (Data modelling for the Sporting Index API)
- OxiFeed (Openbet API)
- PA (horseracing feed)
- PayPal (eWallets payment provider)
- DataCash (Payment provider)
- Commidea (Payment provider)
- Tote (binary feed for Tote services)

APPLICATIONS TESTED INCLUDE:

- Openbet (Sportsbook)
- Amelco ATS (Trading system)
- Internal Product Sets within Clients

WILLIAM HILL CASE STUDY:



THE PERFORMANCE ENGINEERING PROJECT:

TTP underpin the William Hill internal Performance Test Team with a model whereby consultants are onsite, and also have access to an 'innovation' budget whereby modelling, harnesses, cloud solutions and tool creation are available without disrupting the project delivery cycle.

DURING THE ENGAGEMENT TTP HAVE:

- Created a push load testing solution which replaced the system provider's tool that did not exercise the system correctly
- Created AMF/RTMP load testing solutions
- Increased the potential virtual user base infinitely with minimal cost
- Created test harnesses for external feeds
- Stubbed out components to isolate systems
- Provided tuning advice across the product suite
- Performance tested Financial Services Product

THE TEST SERVICES PROJECT:

William Hill historically used to contract resource to fill the gaps in their testing cycles. The consequence of this was that they lost valuable business knowledge, took risks on new resource and paid large amounts for specialist testing skills whilst not receiving the benefit of Test Process Improvement.

To remedy this, William Hill selected TTP who brought in core testing skills, best practice for all forms of testing, technical test assistance and a commitment to delivery for an improved cost which actually increased their quality, complementing the capability of their internal test services function.

THE KEY BENEFITS REALISED INCLUDE:

- A cost efficient way of running a core team of consultants
- Flexible resourcing model that can react to rapid changes in delivery timescales
- Non-functional Testing (specifically Performance Testing/Engineering) expertise
- Test Harness building skills (for performance and functional testing)
- Automation framework outsourcing, delivery and expertise
- Key leadership roles in the delivery of whole or part of product sets
- Retained business knowledge
- Access to best testing practice
- Inputs and recommendations into Test Process Improvement
- Open and honest communication
- Working side by side with William Hill to deliver a now thriving Online business

ABOUT THE TEST PEOPLE:

Founded in 2006 and with offices in Leeds and London, The Test People Ltd is an, innovative testing consulting firm specialising in Performance Engineering, Test Automation and Test Management.

Our service is designed to provide the best Testing Services possible to either underpin an existing Test Team/Strategy and can be tailored especially to your business or a particular project.

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