SQS Performance Testing

Service Overview

Your reputation, growth and compliance elevated

IT change is more complex than ever; SQS performance test services reduce exposure to your risks, increasing the chance of delivering successful products to market.

Your organisation wants to release quality products quickly to your customers; performance is integral. You need confidence that your systems will be responsive and behave in a predictable way, now and in the future.

Your customers are discerning where performance is concerned and have little patience yet many market alternatives. You invest millions to provide them with more control over what they do and what they use to do it, but without the speed element of the experience, the return on your investment will not be realised.
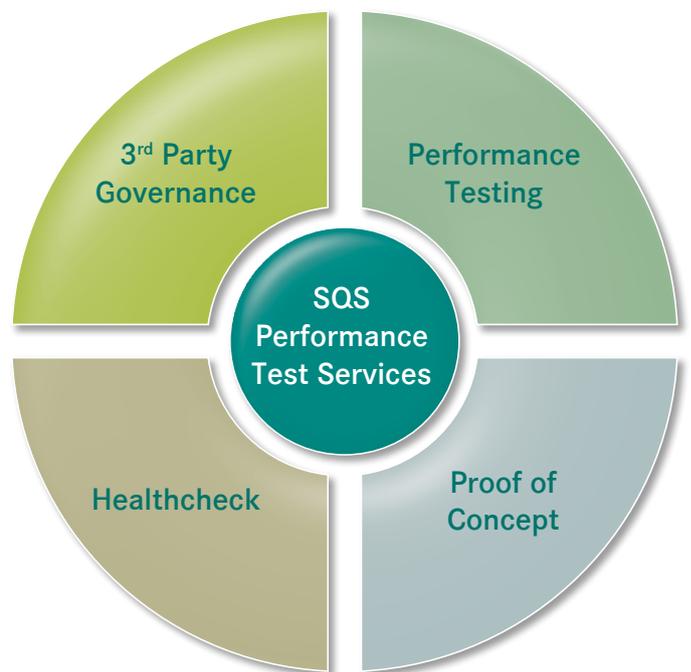
" Your customers will not thank you for **providing a fast system** but they will **disengage if you don't.** "

Our Performance Test Services

" SQS removes the business impacts and frustrations of a slow and unstable system; **allowing your application consumers to be highly productive and satisfied** as your business grows. "

On the round trip from design to production deployment, SQS aligns its Performance Test services to your IT programmes. Using versatile performance test and engineering approaches, your system is inspected and optimised according to YOUR requirements, OUR experience and INDUSTRY standards.

Whether you have already adopted performance testing or have identified a pressing need to begin, SQS have a service that supports and enriches your organisation.

3rd Party Governance

Performance Testing

SQS Performance Test Services

Healthcheck

Proof of Concept

Performance Testing

SQS removes the business impacts and frustrations of a slow and unstable system; allowing your application consumers to be highly productive and satisfied as your business grows.

We bring to you a wealth of skill and experience in performance testing on legacy systems through to the latest technologies. Using our know-how we test and optimise a single line of code through to large and complex architectures. We take the complex and format the information in a way that is meaningful to your business.

Our customers report outcomes including:

• Improved customer satisfaction

• Business growth and competitive advantage

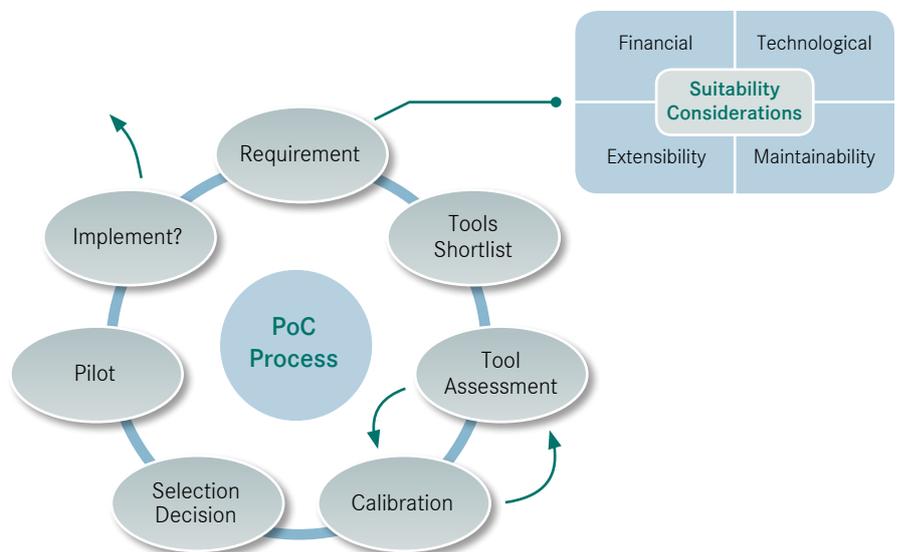• Infrastructure management and cost efficiencies

We have the knowledge and experience from over 30 years in this industry to get you to where you need to be.

Load test

Normal load

Peak load

Measure performance at expected load levels

Soak test

Measure performance & stability over time

Stress test

Breaking point

Year 1 load

Peak load

Normal load

Determine the breaking point of the system

Spike test

Peak load

Normal load

Measure performance during bursts of high load

Volume test

Year n

Year 1

Go Live

Measure performance of a growing database

Scalability

Good?/Better?

Good

Measure performance on a scaled architecture

Proof of Concept service…

… provides you with a clear direction for your performance testing strategy.

Making the correct tooling choices will ensure you invest the minimum amount to get the required technical coverage and flexibility. Using our practical knowledge of performance test tools and partner relationships we can help you implement and extend tooling solutions to ensure teams are working accurately and efficiently. This gives you the visibility you need in the fastest time possible.
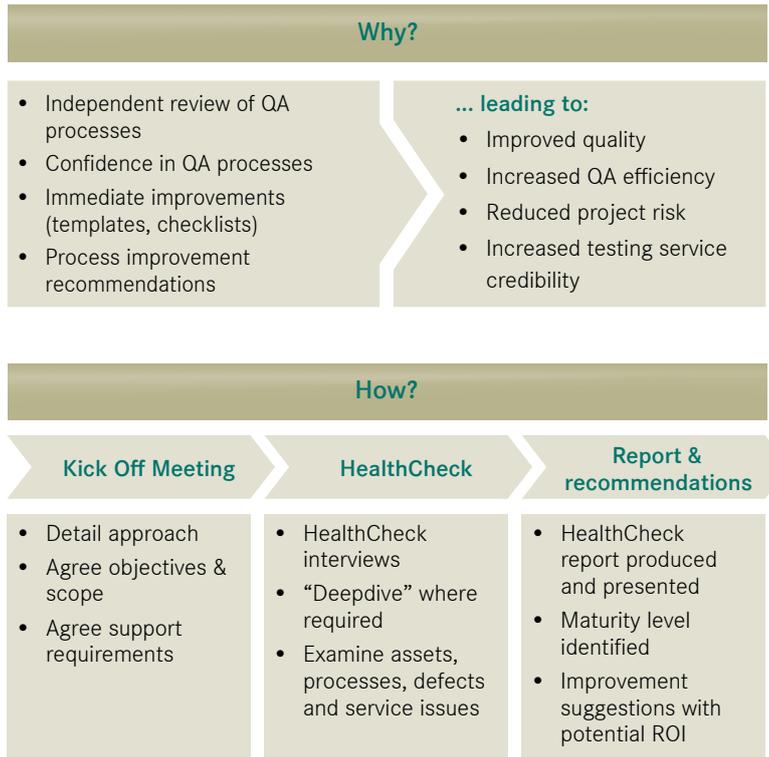
Financial | Technological

Suitability Considerations

Extensibility | Maintainability

PoC Process

Requirement

Tools Shortlist

Tool Assessment

Calibration

Selection Decision

Pilot

Implement?

Healthcheck service….

… is a pragmatic method of identifying opportunities to reduce risk, improve testing efficiency and application quality. Applying our 30 years of performance test experience we can tune your capabilities to provide immediate results.

The SQS Performance HealthCheck is for you if you are interested in answering any of the following questions:

- How can I reduce the cost of my performance test effort?

- How can I improve my test operations to deliver better quality?

- How can I increase the scope of my performance testing without increasing the costs?

- How can I find improvement ideas without a costly formal assessment?

Why?

- Independent review of QA processes
- Confidence in QA processes
- Immediate improvements (templates, checklists)
- Process improvement recommendations

… leading to:

- Improved quality
- Increased QA efficiency
- Reduced project risk
- Increased testing service credibility

How?

Kick Off Meeting	HealthCheck	Report & recommendations
• Detail approach • Agree objectives & scope • Agree support requirements	• HealthCheck interviews • "Deepdive" where required • Examine assets, processes, defects and service issues	• HealthCheck report produced and presented • Maturity level identified • Improvement suggestions with potential ROI

3rd Party Governance service…

… connects your business and IT goals to your performance test approach with the objective of ensuring performance risk is addressed in a technically sound, transparent and most efficient way.

Being certain that you're getting the best out of your test platform is paramount.

	Senior Stakeholders:	Service Customers:	Performance Test Practitioners:
Consumer Groups	• Senior Management • Programme Managers • Shared Services Manager • Internal/External Auditors	• Project Managers • Test Managers • Product/Solution Owner • Project Governing Body	• Service Supplier(s)
Consumer Priorities	• Supplier viability, capability, capacity, flexibility • Service delivery achievement • Solution delivery • Supplier value add	• Timely service delivery • Service delivery quality • Solution quality • Value for money • Practitioner performance	• Standards, models of best practise • Benchmarks & targets • Improvement opportunities
Governance Service Features	• Visibility of supplier capability & resource quality • Visibility of delivery achievement; service quality • Mechanism for driving & measuring added value	• Visibility of delivery progress, achievement & quality • Visibility of service value, practitioner ability & performance • Mechanisms for benchmarking & continuous improvement	• Access to best practice guidance, models, examples • Mechanism to add value; improve asset base, delivery capability & efficiency

Our services ensure that newly developed or modified applications perform as expected before they are released for customer use. From simple, low-use applications through to complex applications integrating multiple lines of business and processing millions of transactions per second, we are trusted by leading brands of all sizes, the world over.

INNOVATIVE PERFORMANCE TEST APPROACHES

Enabling global business growth

SQS helped rescue a failing test service for a global retailer. The previous testing team were from a third party organisation who did not have the expertise or experience to complete the project. The requirement was to test and tune the solution to support 100,000 orders per week and to manage a queue of 30,000 messages. Our engagement identified an innovate testing approach, determined optimal sizing of the architecture and the maximum capacity. Without our help the organisation could not have scaled to the global market.

HIGH CAPACITY SYSTEMS

15x increase in system throughput for multinational media company

SQS helped a multinational media and information services company achieve a 15-fold increase in system throughput to 1.2 million messages per second. This dramatic performance gain enabled the company to gain first mover, competitive advantage and establish a brand leading position in the market.

How we have helped our customers

PRODUCTION PERFORMANCE ISSUES

Over $6 million savings per year

A client had regular production incidents on their oil trading platform. The root cause was unknown but the cost implication to the organisation exceeded $500k per incident. A tactical resolution was identified by SQS which fixed the issue, the subsequent solution re-platform was extensively performance tested and optimised eliminating further production performance issues from occurring.

COMPLEX SYSTEMS LANDSCAPES

Increased user experience through omni channel release for large UK Retailer

SQS helped a UK retailer integrate multiple lines of business in time to ensure a highly successful public service launch (including online, in-store and customer contact centres comprising ten core technologies and over one hundred integration points).

TRANSITION PROJECTS

Delivering £200,000 cost savings

SQS helped two clients transition their software delivery technology platform between vendors, with no service disruption, to achieve operational cost reductions of over £200k. We continue to support the client's Agile delivery teams with managed performance testing services, enabling confidence in every release.

Start your journey with SQS

SQS the world's leading specialist in software quality. We guide and oversee software development activity and leverage our position as an independent verification and validation partner for the benefit of our clients. We ensure that your business vision becomes a reality and we are proud of the long-standing partner relationships we have with the majority of our clients.

Capabilities available from key SQS services such as ALM, Automation and Agile further strengthen the Performance engagements assuring only the best outcomes are achieved.

Contact

If you are interested in the SQS testing and quality management offering, please do not hesitate to send an e-mail to info@sqs.com or visit sqs.com

Transforming the World through Quality