



Case Study: Hitachi

“It has been a very long road to get to this milestone of complete Performance Testing. I am happy with what QAC and Hitachi have been able to accomplish in such a short period of time with all the obstacles and roadblocks you have encountered. You have persevered and were able to deliver on your commitments on schedule and with quality. The work you have done lays an excellent foundation for the capabilities and improvements you will be able to provide to use in the future.”

- Richard Blackwood, Performance Testing Manager, METROLINX

CHALLENGE & TEST REQUIREMENTS

The client, METROLINX, engaged with QAC and Hitachi Consulting to demonstrate that the technical and application architectures supporting the PRESTO solution are capable of operating at the future volumes through extensive cycles of Performance Testing.

The Performance Test phases aim to address the following requirements:

- Assess performance of application and infrastructure for system capacity under the future volumes.
- Perform a baseline of net new functionality introduced as part of Tahoe 2 to understand the performance characteristics
- Evaluate system performance against performance requirements
- Uncover performance bottlenecks within the application/infrastructure
- Support system tuning and performance optimization
- Determine throughput levels
- Assist in verifying adequacy of infrastructure sizing

The test results gathered during performance testing will be used to identify, isolate and remediate potential performance bottlenecks within the underlying infrastructure and application architecture.

In addition, the test results gathered can be used to help validate the scalability of specific components to support the anticipated growth of the PRESTO Solution.

SOLUTIONS & APPROACH

- Our team has demonstrated a delivery approach based on applying the industry's best thinking on innovative approaches, tools, IPT (Integrate Performance Testing), and engineering principles across the SDLC.
- Use a flexible Performance methodology that supports end-to-end, mobile, and ad-hoc performance testing of releases and potentially productions systems.

RESULTS

- ✓ Improve Quality
 - Focus on identifying performance defects earlier in the cycle
 - Reduce incidents of production issues and cost to fix
 - Demonstrate ability to meet performance expectations at the specified load levels/SLAs
 - Enhance performance engineering practices throughout the SDLC

- ✓ Increase Responsiveness
 - Minimize performance test delivery time with experienced resources
 - Increase amount of performance test scope included per release
 - Access to high quality performance testing skills to support projects on demand Reduce Cost - Production downtime avoidance
 - Reduce expensive production “firefights” and reduce cost to fix
 - Increase leverage of offshore performance team
 - Manage infrastructure costs
 - ↳ accurately size and manage capacity

- ✓ Improve Efficiency
 - Skilled resources and reusable assets are ready for immediate deployment based on project timelines
 - Ready to deploy project management framework to reduce start-up activities
 - Measurement framework to manage efficiency and improve outcomes

