



# Guidewire Performance Testing

Success Enables Seamless Expansion for  
**Insurance Client into 22+ US States**





## Challenges:

- Outdated and unviable performance tests
- Lack of test data, workloads to simulate realistic tests
- Lack of comprehensive approach covering multiple apps & LOBs to validate the product as a whole

## Solutions:

- Use of zero-cost, in-house Aspire Performance Testing Framework (APTF)
- Real-world like production behavior simulation
- Custom framework in agile environment with monthly releases for effective testing
- Isolation of specialized tests for new performance enhancements
- Live monitoring and real-time results analysis

## About the Customer

Our client ranks among the world's preeminent companies that develop and deploy enterprise software for the property and casualty insurance industries. They also provide a non-life insurance software suite to optimize underwriting and claims operations, successfully establishing their dominance as an insurance software provider in the global market. Their products are being used by more than 450 insurers in 34 countries worldwide.

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## Challenges

Our client's existing performance testing project encountered several challenges that impacted the testing process and overall project timelines.

- Performance tests that were carried were outdated and were not in usable condition
- Unavailability of test data, workload to simulate realistic performance tests
- Need to cover multiple applications & business variations to validate the product as a whole

Firstly, the performance tests that were initially carried out were outdated and not in usable condition. This meant that the team had to start from scratch to develop new tests, which added additional time and resources to the project. Another major challenge was the unavailability of test data and workload to simulate realistic performance tests. The team had to create test data sets from scratch, which was time-consuming and resource intensive. Additionally, creating realistic workloads that accurately represented real-world usage patterns was challenging, as it required a deep understanding of the system's usage patterns and user behavior.



## Results:

- Comprehensive performance testing of 6 applications to meet business needs
- Ramped up platform standards to be used by 14K+ agents with releases into 22+ states in the US without performance issues
- Performance scalable to handle 65k+ business volume (quotes) per day
- Successful migration of the product to cloud platform without performance issues
- Worked with the customer towards strategic planning to sustain and cater to increasing business volume

## Tools:

- Load Generating Environment: JMeter
- Custom Aspire Framework: APTF

## Solutions

Aspire Systems proposed a solution to address the challenges faced during the performance testing project. The following are some of the key highlights of the proposed solution:

- Aspire Systems suggested the use of a zero-cost, in-house custom-built framework called APTF – the Aspire Performance Testing Framework - for extensive performance testing.
- Our domain experts worked closely with the client to understand the business volumes and arrived at various workload parameters to simulate production-like behavior. This included users, roles, geography, LOBs, and other relevant factors. APTF specialized in simulating real-world like production behavior and helped ensure that the performance tests were accurate and effective.
- The team created scripts within a tight schedule and deployed the custom framework in the customer's environment. This allowed for efficient and effective performance testing to be carried out.
- The performance tests were carried out in a highly agile environment with monthly releases, ensuring that any performance-related issues were identified and resolved quickly.
- The custom framework allowed for the isolation of specialized tests for new performance enhancements, ensuring that any changes to the system were thoroughly tested before being released.
- Our team also designed well-structured and interactive dashboards for live monitoring and quick results analysis. This allowed for real-time performance data to be analyzed and acted upon, ensuring that any issues were identified and resolved quickly.

Overall, the proposed solution allowed for extensive and accurate performance testing to be carried out in a highly agile environment, ensuring that any performance-related issues were identified and resolved quickly, and that the system remained performant and reliable.



## Outcome highlights:

The comprehensive performance testing solutions resulted in seamless, high-quality launches for the client.

- Complete product comprising of 6 applications were performance tested to meet the business needs
- Tested insurance platform so that it could be used by 14K+ agents spread across the US and helped in successful release with expansion into 22+ states without performance issues.
- Performance scalable to handle 65k+ business volume (quotes) per day
- Successful migration of the product to cloud platform along with tech stack changes without any performance degradation
- Identified capacity to handle the projected load/ user for next 2+ years

In conclusion, Aspire Systems' comprehensive performance testing solutions resulted in seamless, high-quality launches for the client. The scalability of the platform was tested and validated, and the product's cloud migration was handled as well. Overall, the client was able to achieve their goals of expanding into new states and providing a reliable platform for their agents, making the performance testing strategy and solutions a success.



Aspire Systems is a global technology services firm serving as a trusted technology partner for our customers. We work with some of the world's most innovative enterprises and independent software vendors, helping them leverage technology and outsourcing in our specific areas of expertise. Our core philosophy of "Attention. Always." communicates our belief in lavishing care and attention on our customer and employees.

For more info contact: [info@aspiresys.com](mailto:info@aspiresys.com) or visit [www.aspiresys.com](http://www.aspiresys.com)

USA  
+ 1 630 368 0970

SINGAPORE  
+65 3163 3050

INDIA  
+91 44 6740 4000

BELGIUM  
+ 32 3 204 1942

NETHERLANDS  
+ 31 (0)30 800 92 16

POLAND  
+48 58 732 77 71

MEXICO  
+52 222 980 0115