

Pharmacy OneSource



Efficiency, Performance, and Scaling Improvements for SaaS Provider

In a healthcare business environment with a continual need for increased efficiencies and medical care effectiveness, Pharmacy OneSource is constantly looking for new services to help maintain its leadership position and increase market share for its hosted pharmacy management offerings.

Pharmacy OneSource sought to adopt a solution that would support the company's focus on real-time, data-driven analytics applications, which optimize care in terms of quality, cost, and regulatory compliance.

CHALLENGE

Pharmacy OneSource was limited by disk speed and inability to scale effectively, which in turn resulted in massive bottlenecks, including backed up messages, processing delays, timeouts, and resource contention.

The selected solution must be able to provide:

- **Efficiency**
Pharmacy OneSource wanted to double capacity on their existing infrastructure, reduce the cost per hospital to improve margins, and provide ongoing TCO reduction even as volumes and client numbers grow.
- **Performance**
Must be able to process massive amounts of data and messaging against thousands of complex business rules, with no tolerance for failure or downtime.
- **Scalability**
Scaling to handle 10 million messages a day (and more) in real time, delivering accurate results to clients in under 10 seconds, regardless of complexity... Without sacrificing cost efficiency. In terms of scalability needs, this means the solution must support:
 - Scaling out vs. scaling up
 - Linear scalability
 - Dynamic scaling
- **Bridge to the Cloud**
Enable the company to move away from the hardware business by scaling through on-demand cloud vendors.



COMPANY INFO

- US Healthcare's no. 1 software-as-a-service provider
- Over 1300 hospitals and clinics use their hosted pharmacy management application suite.
- More than 44,000 pharmacy professionals are active members
- Nine high-end healthcare applications on offer
- Pharmacy OneSource SaaS solutions contribute to swift and safe healthcare through earlier, easier, and better access to data.

SOLUTION

Pharmacy OneSource selected the GigaSpaces solution after evaluating competing technologies, based on GigaSpaces XAP's superior ability to meet the company's goals, as follows:

- **In-memory data grid:** Up to 1000 times faster than disk-based system throughput, resolving the databases bottleneck and delivering faster results to clients.
- **Dynamic scalability:** XAP can automatically provision new resources when they are needed, and then scale back when volumes are lower, providing Pharmacy OneSource the ability to deliver superior performance without passing on the cost to customers.
- **Cloud-readiness:** GigaSpaces is already designed to run on the public cloud, enabling Pharmacy OneSource to provide on-demand services as they add new customers.
- **Fast time to market:** GigaSpaces is proven, market-leading technology that offers easy adoption with minimal learning curves.

Over 4 million messages supporting over 200,000 active patients, with 9000 rules run against these messages in real-time, daily!

RESULTS

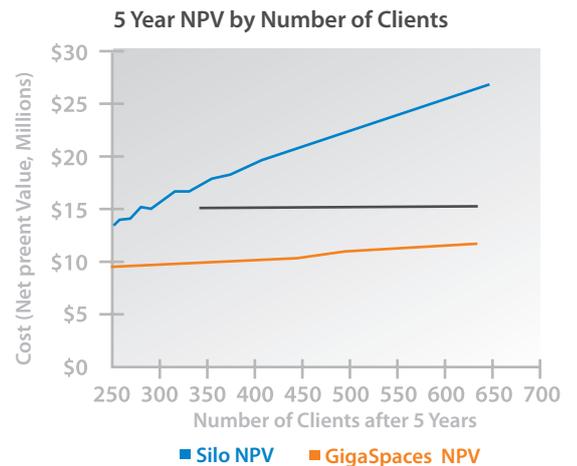
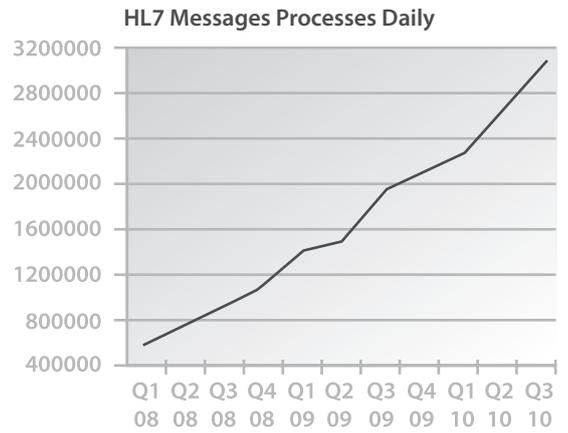
In less than 5 months, Pharmacy OneSource transitioned their first set of applications to the GigaSpaces platform, with the following results:

- 600% increase in message processing speed – from 25 messages per second to 130.
- 15% reduction of load on legacy architecture in phase 1 alone (conversion of 150 customers to new platform; on track for full customer conversion by year's end).
- Optimized resource utilization: 4x increase in tenancy rate, providing larger scale per hosted instance.
- \$20 million in cost savings (based on calculated 5-year NPV of the application infrastructure)

“We are leveraging GigaSpaces XAP to scale the performance of our clinical surveillance SaaS (Sentri7) and double the capacity of our existing data center.”

— Kaj Pedersen, CTO, Pharmacy OneSource

Pharmacy OneSource is leveraging GigaSpaces to deliver critical information accurately and on time, resulting in improved patient care – and even saved lives – through shorter hospital stays, reduced antibiotic resistance, and improved patient safety.



ABOUT GIGASPACE

GigaSpaces Technologies is the pioneer of a new generation of application virtualization platforms and a leading provider of cloud-enablement and end-to-end scaling solutions for distributed, mission-critical application environments, and cloud enabling technologies. GigaSpaces is the only platform in the market that offers a truly silo-free architecture, along with operational agility and openness, delivering enhanced efficiency, extreme performance, and always-on availability. Our offering includes solutions for enterprise application scaling and enterprise PaaS and SaaS enablement that are designed from the ground up to run on any cloud environment – private, public, or hybrid – and offers a pain-free, evolutionary path to meet tomorrow's IT challenges.

Hundreds of organizations worldwide are leveraging GigaSpaces' technology, among which are Global Fortune 500 companies, including top financial service enterprises, e-commerce companies, online gaming providers, and telecom carriers.



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