



# HP and GigaSpaces

GigaSpaces XAP on HP platforms



## Addressing the needs of financial services customers

### Scalability pain points

Today's financial services organizations are facing critical and systemic business and IT challenges in the following areas:

- Transaction speeds – it's essential to execute transactions as rapidly and effectively as possible because of the growth in trading volumes, and greater competition to exploit narrowing spreads
- Portfolio analysis – banks and traders must maintain a current and accurate overview of portfolios, despite highly volatile market conditions
- Market structure – institutions must be able to react effectively to structural changes that cause higher turnover of low-margin business with a greater exposure to risk
- Risk management – for operational reasons and for regulatory compliance, they must also proactively manage and mitigate risk exposure, and accurately calculate capital adequacy

### GigaSpaces eXtreme Application Platform (XAP)

GigaSpaces XAP is a complete middleware platform that simplifies and easily transforms new and existing applications into powerhouse services with limitless scalability and low-latency performance.

Based on a holistic space-based architecture (SBA), GigaSpaces XAP is the only available solution to eliminate all scalability barriers inherent in multi-tier applications by managing the data, messaging and business logic associated with a transaction or analytical computation on a single computer node.

### Solution benefits

- Resolves processing bottlenecks at all levels
  - Spawn multiple threads to process complex, stateful transactions in parallel
- Dramatically reduces latency
  - Achieve lowest possible transaction latency by co locating relevant data and business logic on the same node (no network hops)
- Enable linear, dynamic and cost-effective scalability for both transaction- and data-intensive applications
- This solution is the only one that can actually manage and scale the applications' data.

### Working together with HP

Working with HP, we can deliver mission-critical solutions for brokerage, trading and asset management operations across global financial markets. HP offers proven leadership in order routing and management, trading support, analytics, risk management, and transaction processing for the buy side, the sell side and treasury operations. Together, we can meet market demand with financial solutions that optimize a range of HP platforms supported by HP Services.

## GigaSpaces XAP

Advanced capabilities and components, such as an in-memory data grid (distributed caching), high-performance messaging and parallel processing, make GigaSpaces XAP an ideal solution for the most demanding applications and environments including:

- Extreme transaction processing (XTP)
- Real-Time Analytics
- High-performance service-oriented architectures (SOAs)
- Large-scale web applications

GigaSpaces XAP uses the open and standards-based OpenSpaces Framework as the primary programming model, providing a simple, non-intrusive API that allows developers to write applications in Plain Old Java™ Objects (POJOs). In addition, GigaSpaces provides APIs for plain .Net and C++ objects.

Transaction speeds: GigaSpaces XAP achieves the lowest possible transaction latency by co-locating relevant data and business logic on the same node (no network hops); and by spawning multiple threads to process complex, stateful transactions in parallel.

Compute intensive apps: traditional grid solutions manage and utilize the resources. XAP is the only solution that can actually manage and scale the application's data.

### HP products supported

Our solutions are supported on a broad range of HP servers across both RISC and/or Intel® architectures. From blades and clustered servers to high-powered, 64-bit, multi-processor super-computing, HP servers set the standard for performance, scalability, availability and manageability. With their industry-leading innovation and value, HP servers are the ideal choice to meet your most demanding business needs.

### Service and support

We leverage the proven methodologies and expertise of over 65,000 HP Services professionals around the world to help your company design, build, integrate, manage and evolve an infrastructure that lets you respond to business changes easily and cost-effectively.

### Building on the value of strong relationships

By working with HP, we have the resources, experience and knowledge of an industry leader to ensure our solution delivers the business results and value your company requires. HP is a company that thrives on innovation, with a proven track record of success in virtually every market, customer segment and region worldwide. Together, we have the technology and services to meet your most demanding needs.

HP and GigaSpaces provide a complete application infrastructure stack for better business outcome, from network to hardware to middleware designed for large financial institutions. Working together, we deliver innovative grid-enabled systems to help enable lower unit costs, best possible service levels and higher utilization.

### Working together to drive success

By combining standards-based and modular technologies with our leading-edge applications and a full portfolio of services, you gain a powerful, flexible solution that meets your business needs today—and adapts dynamically as those needs change. That's the foundation for building an agile, responsive enterprise to drive better business outcomes for your long term success.

For more information, visit [www.hp.com](http://www.hp.com)  
[www.gigaspaces.com](http://www.gigaspaces.com)

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