

## GigaSpaces Technologies for Financial Services

### ***Unique offering for Meeting the Extreme Demands of Today's Capital Markets***

GigaSpaces provides infrastructure software for seamlessly scaling-out high performance, stateful applications. GigaSpaces is the ONLY vendor that offers an integrated solution, delivering the messaging, data and business logic management services required to develop and deploy mission-critical applications that can meet the tough performance, scalability and reliability demands of today's capital markets.

#### ***...already adopted by major customers***

Among GigaSpaces' customers are financial services, government, and telecommunications institutions. In the financial services industry, GigaSpaces' customers include [Societe Generale](#), [Monte Paschi Asset Management](#), [Chicago Mercantile Exchange](#) and [Dow Jones](#).

### ***Relevant Applications***

The advent of electronic and algorithmic trading, increased regulatory demands, straight-through processing and direct market access, all require today's capital markets applications to rise to new levels of performance, scalability and reliability.

Capital markets demand sub-millisecond response times with seamless fail-over. Furthermore, financial applications are required to be designed for unlimited scalability across commodity hardware.

These trends and challenges are manifested in many areas of the industry. Below are a few examples that GigaSpaces has encountered in its extensive experience working with the financial services industry:

#### **Algorithmic Trading**

The success of algorithmic and program trading relies on the quality and timeliness of data feeds. Automated systems are generating millions of transactions in matters of microseconds, while current front-office applications are not architected to have the capacity to respond accordingly. Firms that develop the capabilities to manage these extreme low latencies, will create a significant competitive advantage.

#### **Market Data Distribution**

Market data volumes are growing exponentially, while latency requirements are decreasing. Acquiring and distributing high-quality market data that is continuously fluctuating becomes, at times, mission impossible. "We have seen peak market data speeds increasing almost five fold this year (from 25,000 ticks per second to 120,000 tps)" stated Larry Tabb of the Tabb Group in Wall Street & Technology, January 2006.

#### **Risk and Portfolio Analysis**

In the field of compute intensive applications such as VAR assessment, Monte Carlo Simulations and Back Testing trading strategies, the vast amount of data and highly complex calculations call for intensive use of resources. While traditional grid solutions manage and utilize the resources, they cannot manage and scale the applications' data.

#### **Surveillance and Compliance**

As capital markets become increasingly electronic, trading volumes are soaring and investors are looking to reap the rewards of greater liquidity in the face of rapidly commoditizing markets. At the same time, more stringent compliance regulations dictate exchanges to significantly reduce surveillance response times; from overnight to near real time. Exchanges are looking for scalable solutions to handle this growth and improve reliability and efficiency.

## ***Key Benefits and Differentiators***

### **All Key Application Services within One Platform**

Unlike middleware products that offer one aspect of the solution, such as messaging, data caching, clustering or fault-tolerance, GigaSpaces combines all of these services, using one technology. GigaSpaces saves the need to purchase multiple middleware components to build an application, and the significant investments in time, resources and money to integrate, deploy, and manage these complex systems.

### **Performance and Scalability is on Us**

Customers turn to GigaSpaces because their existing architectures, such as tier-based systems utilizing J2EE application servers, do not scale and do not meet the performance requirements of their business. Throwing expensive hardware at the problem is no longer a viable approach. GigaSpaces relieves developers of the burden of designing application performance and scalability. Instead, your architects and programmers can focus on the business logic of their applications, while distribution, performance and scalability are handled by the GigaSpaces product.

### **Leveraging Your Existing Resources**

Using GigaSpaces, customers can leverage their investment in existing systems such as databases, application servers and hardware resources (whether it is large SMP boxes, x86, or cutting-edge multi-core servers). GigaSpaces' support of a wide variety of APIs and application frameworks enables organizations to minimize application re-factoring, deploy GigaSpaces in a matter of weeks or days, and enable numerous applications of different APIs to interoperate.

### **Always On – Zero Transaction Loss**

GigaSpaces' built-in monitoring and management engine automatically deploys application components, such as the data or business logic, to the most appropriate machines, addresses spikes in business volume by dynamically scaling application resources, and ensures that service-level agreements are met by detecting and recovering from failures.

### **Industry Recognition**

GigaSpaces software has won several awards such as the SIIA Codie Award and Duke's Choice Award from Sun Microsystems. In August 2006, the company was named a leading visionary in Gartner's "Magic Quadrant".

### **Strong Vendor with Worldwide Presence**

GigaSpaces was founded in 2000 and is present in New York, San Francisco, Atlanta, Washington DC, London, Paris and Israel. Its investors include BRM Capital, FT Ventures, Intel Capital and the Formula Group (NASDAQ: FORTY). With its global 24/7 support, the world's largest investment banks and exchanges rely on GigaSpaces for their most mission critical applications.

## ***Contact Us***

For more information about GigaSpaces product and technology, as well as case studies and technical documentation, visit our website at [www.gigaspace.com](http://www.gigaspace.com).

Alternatively, you can contact one of our sales representatives in your region at:

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