XAP
The In-Memory Computing Platform

# Meeting Real Time Risk Management Challenges

With XAP In-Memory Computing, legacy systems can keep up with increasing trade volumes and assess real risk in real-time. XAP enables you to develop, deploy, and manage your application, data, and messaging services with a single product while reducing risk exposure, meeting regulatory requirements and lowering operational costs.


## Why XAP?

**XAP offers the following capabilities, critical for trading environments:**


### Real Time Matching

- Cache all trades in memory as they arrive
- Partition trades by symbol, customer or other parameters
- Use in memory notifications to trigger the match process as trade orders come in
- Use parallel processing and indexes to match trades fast and efficiently

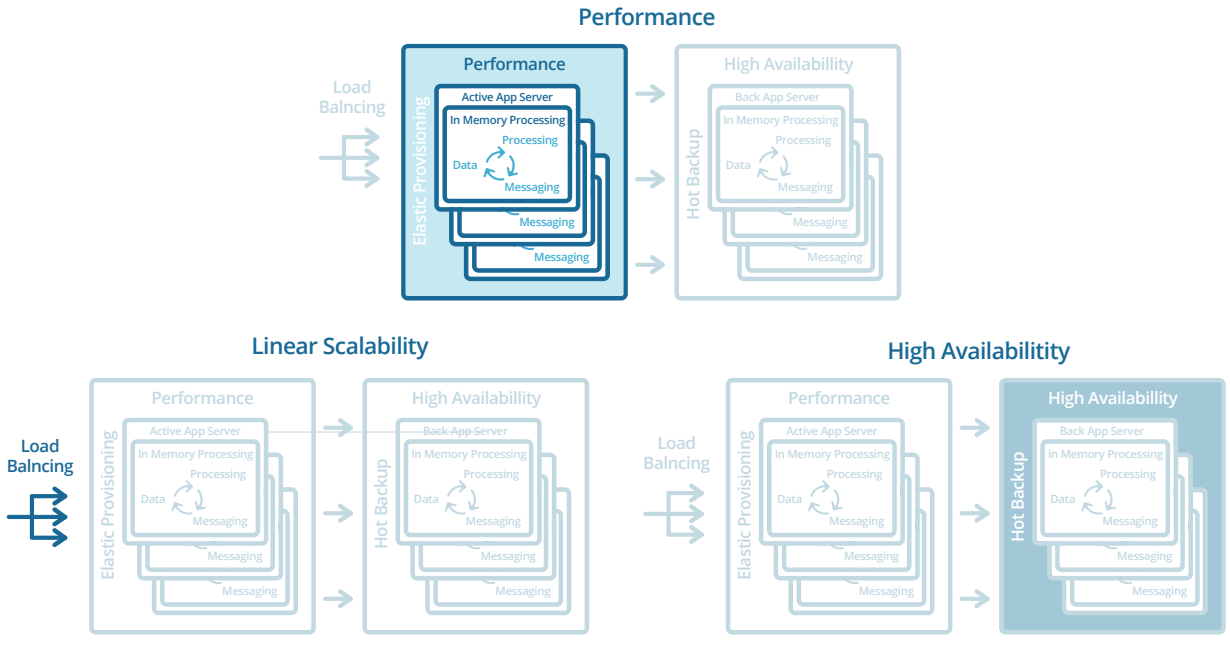
### Cope with Growing Trade Volumes

- Use XAP dynamic SLA manager to proactively provision more resources as loads increase
- Use XAP real-time synchronization and self-healing mechanisms to prevent cascading failure and data loss
- Use XAP built in alerting and monitoring mechanism to supervise productiontrades fast and efficiently

## How XAP Works

XAP enables your app to run entirely on a single platform with all the tiers collapsed into one container. The platform gives you fast data access by storing ALL your data in-memory, ensuring high availability and scaling your app automatically and on-demand. End-to-end elasticity enables all system components to scale as resource requirements increase.

During periods of peak load or through seasons of increased traffic, XAP dynamically expands your application onto additional physical resources – automatically and on-demand, to meet any SLA. Resiliency is guaranteed by in-memory backup within each container, and by mirroring data to a traditional database outside the runtime.



## Challenges

### Risk Optimization

XAP allows users to achieve compliance objectives while mitigating operational risk, fighting crime and optimizing returns.

### Adopt transformational technology solutions that reinforce a simplified, streamlined and agile enterprise

to balance growth, efficiency and business resiliency in order to support new business innovation.

### Simplification of operational and technological complexity

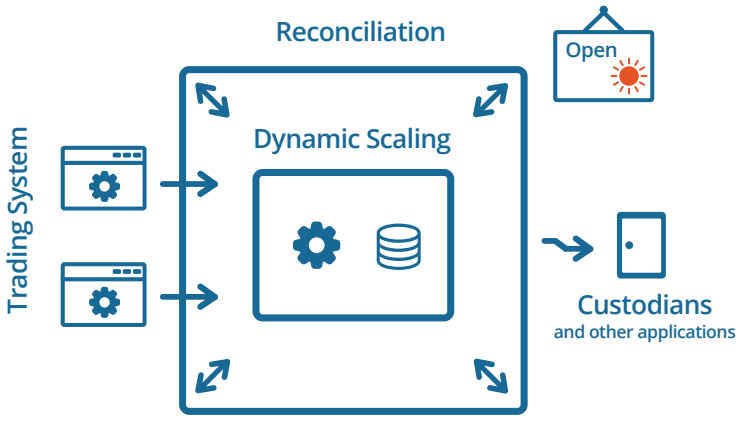
XAP consolidates disparate sources of customer, product and transactional data into one unified dynamic model. It also organizes data as master data (MDM), consuming data feeds such as operational data, analytical data and real-time via standard interfaces.

### De-duplicate processes, deleverage & pursue componentization of technology

XAP separates data from applications, allowing simple application and data reuse across an enterprise.

## Use Cases

- Trade Reconciliation
- Suspicious Activity Report (SARS) Compliance
- Market to Market for Mutual Funds Real-Time
- Intrusion Detection and Prevention
- Alternative Investment Fund Managers Directive (AIFMD)




## About GigaSpaces

GigaSpaces Technologies provides software middleware for deployment, management and scaling of mission-critical applications on cloud environments through two main product lines, XAP In-Memory Computing and Cloudify. Hundreds of Tier-1 organizations worldwide are leveraging GigaSpaces' technology to enhance IT efficiency and performance, from top financial firms, e-commerce companies, online gaming providers, healthcare organizations and telecom carriers.

GigaSpaces was founded in 2000 and has offices in the US, Europe and Asia. For more information, please visit www.gigaspaces.com or our blog at blog.gigaspaces.com.

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