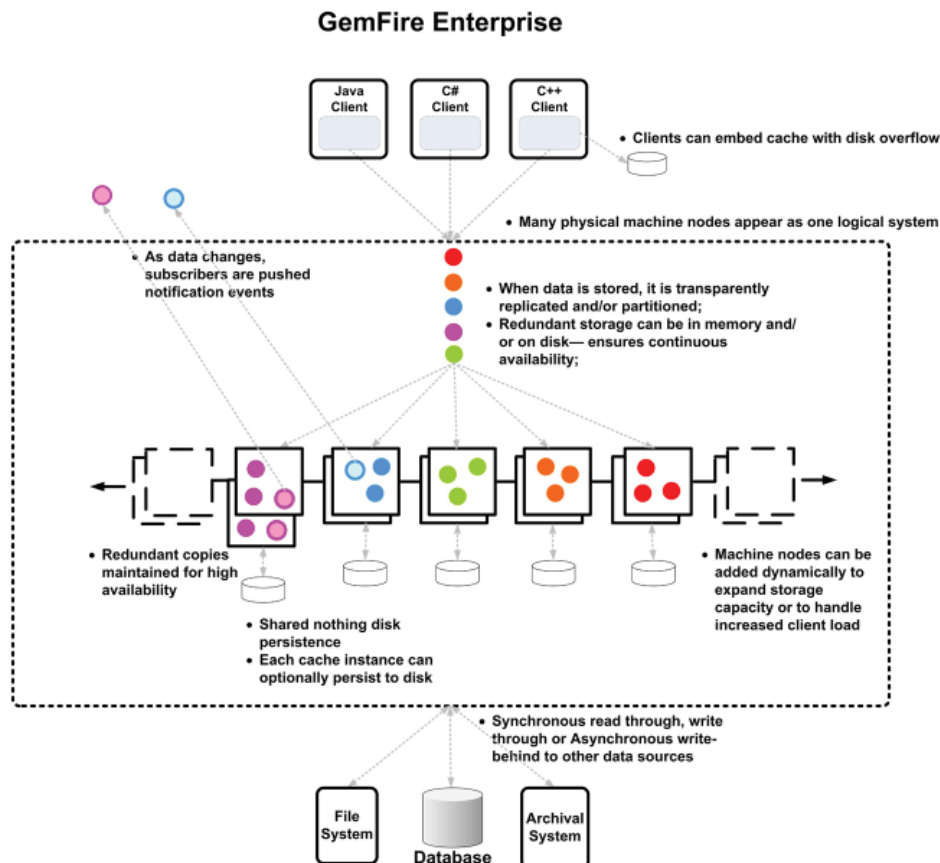


# GemFire Enterprise – An Enterprise Data Fabric solution from GemStone Systems, Inc.

GemFire Enterprise is in-memory distributed data management platform that pools memory (and CPU, network and optionally local disk) across multiple processes to manage application objects and behavior. Using dynamic replication and data partitioning techniques, GemFire Enterprise offers continuous availability, high performance and linear scalability for data intensive applications without compromising on data consistency, even under failure conditions. In addition to being a distributed data container, it is an active data management system that uses an optimized low latency distribution layer for reliable asynchronous event notifications and guaranteed message delivery.



## KEY FEATURES

- Continuous query to provide active data change notifications
- Horizontally scalable to thousands of cache nodes
- Continuous availability with zero downtime
- Multiple cache topologies to meet different enterprise needs
- Support for asynchronous and synchronous cache update propagation
- Message queuing to support slow receivers and durable subscriptions
- JTA compliant transaction support
- Standards based querying via Object Query Language (OQL)
- Native support for Java, C++ and C# applications
- High availability through n-way replication and disk persistence
- Rich management console, visual statistics display and JMX API support

## BUSINESS BENEFITS

- Real-time business decision making
- Business agility
- Reduced time to market
- Higher asset utilization
- Improved customer satisfaction

## APPLICATION BENEFITS

- Low and predictable latency
- On-demand data scalability
- Complete data fault tolerance
- Guaranteed message delivery
- Very high application throughput
- Reliable fine-grained event notification
- Reduced total cost of ownership

## RELEVANCY IN TODAY'S BUSINESS CLIMATE

Explosive growth in number of transactions in traditional industries like travel, telecom, defense & financial and in new emerging sectors like online gaming and betting is creating challenges for the enterprise applications to support a large number of concurrent access and updates to large data sets while providing sub-second response time and 24/7 data availability. Traditional data stores like relational database systems are no

longer able to cope up with this new data growth trend as they suffer from data access latency and bottleneck issues for high transaction data needs. Additionally, the centralized nature of these database systems does not allow them to provide speed and scalability in a highly distributed computing environment.

GemFire Enterprise is the solution to meet the low-latency, scalability and resiliency demands of the explosive transaction needs. Unlike traditional data stores, GemFire Enterprise provides an in-memory operational data infrastructure that brings data and events into one distributed platform. Its unique ability to analyze fast moving data and route data/events to applications with guaranteed reliability, along with its inherent distributed nature makes GemFire Enterprise an ideal choice for applications in this emerging business climate.

## INDUSTRY APPLICABILITY

### Transportation/Logistics

- Real-time package tracking
- Up-to-date inventory management
- Single view of assets across geographically dispersed data centers

### Financial Services

- Near real-time risk processing
- Consistent and global view of trade data
- Highly resilient data infrastructure across geographically located data centers

### Insurance

- Early fraud detection due to in-memory pattern matching
- Faster customer application processing due to memory speed access to current and historic data
- Highly resilient data infrastructure for 24x7 availability

### Defense and Intelligence

- Data operations in low bandwidth and loosely connected network environments
- Data and event sharing for Communities of Interest
- Real time data analysis

### Hospitality/Reservation

- Improved customer experience due to fast reservation and rates lookup
- Decrease in look to book ratio cost due to simplified data infrastructure
- Dynamic data scaling to accommodate seasonal customer demands

### Online betting

- High customer throughput without data bottleneck
- Faster and reliable access to historic and current data

### Credit Card Processing

- Timely fraud detection by identifying suspected activities
- Improved customer satisfaction with faster transaction approval
- Faster application processing due to memory speed access to reference data

### Telecom

- Improved SLAs by providing sub- milliseconds response time
- Business agility to meet seasonal customer demands
- Increased profits due to lower cost of data infrastructure

### AWARDS

The editorial team of Waters magazine awarded the “Best Vendor Grid Solution” to GemStone Systems, Inc. for its data fabric solution, GemFire Enterprise. GemFire Enterprise was chosen for its outstanding role as a cornerstone technology in grid deployments.



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