

TIBCO ActiveSpaces 3

BENEFITS

DRASTICALLY IMPROVE PERFORMANCE AND THE CUSTOMER EXPERIENCE

Leapfrog slow systems of record and traditional data-storage technologies and speed data to demanding customer-facing applications

GAIN AGILITY AT LOW TCO

Gain fast system of record persistence for tens of terabytes of operational data using inexpensive commodity or virtualized hardware

UPDATE DATA AND SYSTEMS CONTINUALLY FOR ACCURATE AND IMMEDIATE RESPONSE

With filtered and indexed queries, distribute rapidly changing data to multiple applications needing subsets of data

TAKE ADVANTAGE OF CLOUD EFFICIENCIES

Easily deploy on the cloud, on premises, or to hybrid environments

TIBCO ActiveSpaces® 3 is a highly scalable, distributed, next-generation, in-memory data grid for systems of record with terabytes of operational data.

As the volume, variety, and velocity of data grows exponentially, applications designed using traditional data storage technologies, such as relational databases, can't scale. TIBCO ActiveSpaces provides a fast, consistent, fault-tolerant database across a cluster of machines that caches data in-memory for fast read access and persists to local file systems for fast write performance.

21ST CENTURY ENTERPRISE DATA STORAGE TECHNOLOGY

ActiveSpaces provides a system of record for tens of terabytes of operational data, providing very fast operations without compromising quality, accuracy, or availability.

LOW INVESTMENT

The system scales on a cluster of inexpensive commodity or virtualized hardware, which is very easy to configure and maintain and has a very low TCO. With very easy-to-master APIs in Java, and C, and plugins for the TIBCO BusinessWorks™ integration platform, applications can be quickly developed and deployed into production.

EVENT-ENABLED ENTERPRISE

ActiveSpaces is the backbone on which your organization transforms into an event-enabled enterprise, one able to determine cause-and-effect relationships among events in real time and take actions in response to specific scenarios. Any changes to the data stored in its data grid can be filtered with a SQL statement and pushed to receiving applications in real time.

ATTRIBUTES AND CAPABILITIES

COMMUNITY EDITION

A Community Edition offers free development, test, and limited production use, allowing you to experiment and innovate without upfront investments.

- Zero cost for development and entry-level production
- Registration-free access to software
- Strong community support for initial/small users

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DISTRIBUTED IN-MEMORY SYSTEM OF RECORD

TIBCO ActiveSpaces is a distributed in-memory data grid for large-scale systems of record that uses familiar database concepts, such as tables, rows, and columns. Data tables are persisted in parallel on local disks dispersed across a cluster of horizontally scalable commodity servers for fault-tolerance and durability.

FAST DATA ACCESS AND QUERYING

Data is cached in process memory for fast access and can be queried using a subset of the SQL language. Queries can be accelerated through flexible indexing capabilities including secondary indexes.

HIGH PERFORMANCE ACID-COMPLIANT DATA GRID

The data grid provides immediate consistency with full ACID compliance through support for transactions and concurrency control across multiple tables with row-level locking. Full synchronous replication across multiple nodes provides fault tolerance, distributed persistence, and durability.

TRANSACTION ISOLATION

The highest level of isolation is enforced using a pessimistic transaction model that blocks any operations that could violate database consistency or isolation.

ELASTIC CLUSTER SIZING

Cluster nodes can be dynamically added to horizontally scale the data grid on-the-fly with administrative control over data redistribution and without service downtime.

MINIMAL CONFIGURATION AND EASY-TO-USE APIS

Tools are provided that simply define table definitions and how data is distributed across a configurable number of copyset nodes. No complex XML configuration files are involved. Very easy to learn and use APIs support functions to retrieve metadata information about the data grid, a specific table, or a results set.

EVENTING AND COMPUTE GRID

TIBCO ActiveSpaces provides real-time push eventing over the network to servers and client applications for changes to the data grid. Table listeners receive data change events through callback notifications.

COMMUNICATIONS

Fast TIBCO FTL[®] messaging software is used for secure communication, configuration, management, and monitoring of data grid components.

CLOUD READY

Without the requirements for specialized hardware, storage systems, or databases, TIBCO ActiveSpaces provides easy deployment into cloud, on-premises, or hybrid environments. Easily build TIBCO ActiveSpaces into microservices with container deployment products such as Docker.

Features At A Glance

- Fast In-Memory Data Cache
- Persistence—Distributed on local disks
- Fault-Tolerance—Data can be fully replicated synchronously across multiple nodes
- Elastic Cluster Sizing—With no service downtime
- Language and Platform Independence
- Comprehensive Security—Transport data encryption, user authentication and authorization
- ACID Compliant Transactions—Across multiple tables
- Pessimistic Concurrency Control and Row Level Locking
- Filtered and Indexed Snapshot Based Queries
- Eventing Support—Table listeners receive data changes through callback notifications
- Administration and Monitoring—Command-line and browser-based
- Remote Clients—For applications outside the firewall
- Rolling Upgrades with No Service Interruption
- Metadata APIs—Retrieve metadata information about the data grid, a specific table, or results set
- TIBCO ActiveMatrix BusinessWorks Plugin—Integration with the TIBCO platform



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