

INTEGRATING AEROSPIKE WITH ENTERPRISE SYSTEMS

Highlights

- Provides Real-time bi-directional connectivity to JMS
- Seamless integration between Aerospike and other enterprise systems through JMS connectivity
- Enable event-driven architecture and microservices architecture
- Ability to integrate with any endpoint which supports JMS, regardless whether it has a direct integration with Aerospike or not

Overview

Both modern applications and legacy systems within enterprises require real-time connectivity to the underlying databases to support sub-millisecond decisioning, machine learning (ML) and artificial intelligence (AI). Companies with legacy data infrastructures need a solution that integrates with and across their existing and more modern systems to utilize their complete set of data assets. These enterprises typically depend on messaging systems including IBM MQ, Solace, Rabbit MQ, and others. Most of these messaging frameworks utilize JMS (Java Message Service).

Connecting Aerospike in Real-time with Enterprise Systems through JMS

JMS is an API that facilitates the sending and reading of messages and provides loosely coupled, reliable and asynchronous communication between software components of an application.

Aerospike is a hyperscale, real-time distributed NoSQL database that forms a core building block of any Enterprise Data Architecture. In addition, to avoid data siloing, it is imperative to support free data movement between Aerospike and other enterprise systems, such as those relying upon JMS.

Aerospike Connect for JMS, (Figure 1) is the newest member of the Aerospike Connect product portfolio joining Connect for Kafka and Connect for Spark. Aerospike Connect for JMS provides a simple and easy way to move data in and out of Aerospike to other enterprise systems via the JMS enterprise system.

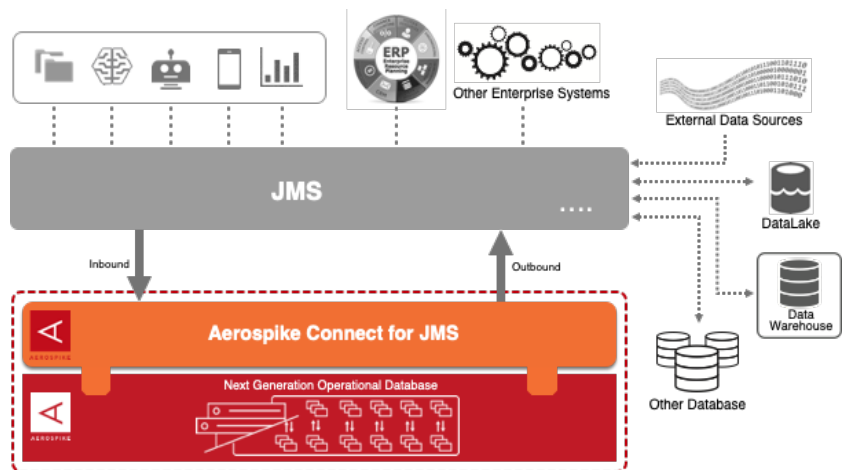


Figure 1. Aerospike Connect for JMS

Aerospike Connect for JMS Functionality

Aerospike Connect for JMS supports bi-directional movement of data through messaging. Organizations relying on JMS can now deploy and integrate Aerospike seamlessly with their existing systems.

- Support for inbound data from JMS message brokers.
- Support for outbound data by streaming changes in Aerospike to JMS queues using the Change Notification system.
- The following JMS message brokers are supported by default:
 - IBM MQ
 - Solace
 - ActiveMQ Artemis
 - RabbitMQ
- Support for JMS message headers and properties.
- Support for receiving different types of data on the JMS bus: TextMessage, BytesMessage, ObjectMessage, and MapMessage

Benefits

- Enterprise-wide connectivity of Aerospike utilizing the JMS messaging system in real-time.
- Easier integration with modern and legacy databases.
- Enables event-driven architecture and microservices architectures.
- Ability to integrate with any endpoint which supports JMS, regardless if it has a direct integration with Aerospike or not.

Typical use cases for Aerospike Connect for JMS

Financial Services and FinTech: Integration with legacy data sources for real-time fraud prevention.

Ecommerce and Retail / CPG: Behavioral data integration and clickstream integration with product data.

Telecommunications: Customer 360, Customer data integration with real-time billing.

Internet of Things (IoT): Edge and device data synchronization with back-end and other core systems.

Data Lake and Enterprise Data Warehouse Integration for real-time Analytics: Integrating operational data with data lakes and data warehouses for analytics.

Ad Tech: Real-time clickstream data synchronization and integration for Real-time Bidding (RTB), Data Management Platforms (DMP), and Supply-Side Platforms (SSP).

About Aerospike

Aerospike is the global leader in next-generation, hyperscale data solutions. Aerospike enterprises overcome seemingly impossible data bottlenecks to compete and win with a fraction of the infrastructure cost and complexity of legacy NoSQL databases. Aerospike's unique Hybrid Memory Architecture™ delivers an unbreakable competitive advantage by unlocking the full potential of modern hardware and eliminating all the friction that holds back companies from delivering unimaginable value from vast amounts of data at the edge, to the core and in the cloud. Aerospike empowers customers to instantly fight fraud, dramatically increase shopping cart size, deploy global digital payment networks and deliver instant, one-to-one personalization for millions of customers in the moments that matter. Aerospike customers include AirTel, Baidu, Banca D'Italia, Nielsen, PayPal, Snap and Wayfair. The company is headquartered in Mountain View, Calif.