Red Hat JBoss Data Grid 6.6

Feature Support Document

For use with Red Hat JBoss Data Grid 6.6.1

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For use with Red Hat JBoss Data Grid 6.6.1

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Abstract

Details JBoss Data Grid feature support and technology preview status information.

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CHAPTER 1. INTRODUCTION

This document clarifies some important information related to features and support for Red Hat JBoss Data Grid, such as:

- The two JBoss Data Grid Usage Modes

- Supported JBoss Data Grid features

- JBoss Data Grid features that are limited to a technology preview.

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1.1. ABOUT USAGE MODES

Red Hat JBoss Data Grid offers two usage modes:

- Remote Client-Server mode

- Library mode

Remote Client-Server mode, which provides a managed, distributed and clusterable data grid server. Applications can remotely access the data grid server using **Hot Rod**, **memcached** or **REST** client APIs.

Library mode allows the user to build and deploy a custom runtime environment. The Library usage mode hosts a single data grid node in the applications process, with remote access to nodes hosted in other JVMs. Tested containers for JBoss Data Grid Library mode includes JBoss Enterprise Web Server and JBoss Enterprise Application Platform (see https://access.redhat.com/articles/115883 for details about supported containers). Additionally, Library mode is supported outside the listed containers as a standalone application.

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1.2. FEATURES AND USAGE MODES

The following table presents a list of features and indicates the usage mode for each feature. Red Hat JBoss Data Grid 7.0 includes full support for both Remote Client-Server mode and Library mode.

Table 1.1. JBoss Data Grid Features

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
File Cache Store and Loading	✔	✔
JDBC Cache Store and Loading	✔	✔
LevelDB Cache Store and Loading	✔	✔

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Cassandra Cache Store and Loading	✔	✔
Cache Passivation	✔	✔
Remote Cache Store	✔	✔
Cluster Cache Store	✔	✔
Asynchronous Store	✔	✔
Cluster Configuration Using UDP	✔	✔
Cluster Configuration Using TCP	✔	✔
Mortal and Immortal Data	✔	✔
Eviction Strategy	✔	✔
Expiration	✔	✔
Unscheduled Write-behind Cache Store	✔	✔
Write-through Cache Store	✔	✔
Clustering Mode (local)	✔	✔
Clustering Mode (replicated)	✔	✔
Clustering Mode (invalidation)	✔	✔

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Clustering Mode (distribution)	✔	✔
Asynchronous Clustering Modes	✔	✔
Marshalling	✔	✔
Management Using JMX	✔	✔
Cross-Datacenter Replication and State Transfer	✔	✔
JBoss Operations Network (JON) Integration and Plugin	✔	✔
Asymmetric Cluster	✔	✔
Command Line Interface (CLI)	✔	✔
Role-based Access Control	✔	✔
Node Authentication and Authorization	✔	✔
Encrypted Communication Within the Cluster	✔	✔
Per Invocation Flags	✔	✔
Handling Network Partitions	✔	✔
Spring Integration	✔	✔
Apache Camel Component for JBoss Fuse	✔	✔

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Querying (by values)	✓	✓
Continuous Queries	✓	✓
Clustered Listeners and Notifications for Cache Events	✓	✓
Near Caching	✓	✓
JSR-107 Support	✓	✓
CDI	✓	✓
Asynchronous API	✓	✓
Distributed Streams	✓ [1]	✓
Deploy custom cache store to JDG Server	✓	
Connection Pooling with JDBC Cache Stores	✓	
REST Interface	✓	
Memcached Interface	✓	
Hot Rod Java client	✓	
Hot Rod C++ Client	✓	
Hot Rod .NET Client	✓	

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Hot Rod Node.js Client	✔	
Data Compatibility Between Client-server Protocols	✔	
Data Compatibility Between Hot Rod Java and C++ Client	✔	
Rolling Upgrades for Hot Rod Cluster	✔	
Rolling Upgrades for REST Clusters	✔	
Controlled Shutdown and Restart of Cluster	✔	
Authentication and Encryption over Hot Rod (Java client)	✔	
JBoss Data Grid's Hot Rod Client as a JBoss EAP Module	✔	
Externalizing HTTP sessions from JBoss EAP 7 to remote JDG cluster	✔	
Remote Task Execution	✔	
Apache Spark Integration	✔	
Apache Hadoop Integration	✔	
Administration Console	✔	
READ_COMMITTED and REPEATABLE_READ Isolation Modes		✔
Lazy Deserialization		✔

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Using the infinispan.xml File in Conjunction with APIs		✔
Custom Interceptors		✔ 2
Grouping API		✔
Java Transactional API (JTA) Support and Configuration		✔
Java Transactional API (JTA) Deadlock Detection		✔
Transaction Recovery		✔
Transaction and Batching		✔
Key Affinity		✔
Distributed Execution Framework		✔
JPA Cache Store		✔
JBoss Data Grid as a JBoss EAP Module		✔
JDG as Lucene Directory		✔

1 : Distributed Streams are available in JBoss Data Grid's Remote Client-Server Mode via Remote Task Execution.

2 : Custom Interceptors are deprecated in JBoss Data Grid 7.0.0, and are expected to be removed in a subsequent version.

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APPENDIX A. REVISION HISTORY

Revision 6.6.0-2   **Fri Jun 23 2017**   **John Brier**
   Removed unsupported mixed mode cluster from features table.

Revision 6.6.0-1   **Wed 7 Sep 2016**   **Christian Huffman**
   Updating for 6.6.1.

Revision 6.6.0-0   **Mon 25 Jan 2016**   **Christian Huffman**
   Initial draft for 6.6.0.