



# **Red Hat JBoss Data Grid 6.4**

## **Feature Support Document**

For use with Red Hat JBoss Data Grid 6.4.1



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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 6.4 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)
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)	✓	✓
Clustering Mode (distribution)	✓	✓



Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Asynchronous Clustering Modes	✓	✓
Marshalling	✓	✓
Management Using JMX	✓	✓
Cross-Datacenter Replication and State Transfer	✓	✓
JBoss Operations Network (JON) Integration and Plugin	✓	✓
Asymmetric Cluster	✓	✓
Data Compatibility Between Client-server and Library Modes	✓	✓
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)	✓	✓
Connection Pooling with JDBC Cache Stores	✓	
REST Interface	✓	
Memcached Interface	✓	
Hot Rod Java client	✓	
Hot Rod C++ 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	✓	
Authentication and Encryption over Hot Rod (Java client)	✓	
JBoss Data Grid's Hot Rod Client as a JBoss EAP Module	✓	
CDI		✓
READ_COMMITTED and REPEATABLE_READ Isolation Modes		✓
Lazy Deserialization		✓

Feature	Remote Client-Server Mode (Supported)	Library Mode (Supported)
Asynchronous API		✓
Using the infinispn.xml File in Conjunction with APIs		✓
Custom Interceptors		✓
Clustered Listeners and Notifications for Cache Manager and Cache Events		✓
Near Caching		✓
Synchronous and Asynchronous Notifications		✓
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 with Map/Reduce		✓
JPA Cache Store		✓
JBoss Data Grid as a JBoss EAP Module		✓

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## 1.3. TECHNOLOGY PREVIEW FEATURES

The following features are included in Red Hat JBoss Data Grid 6.4 as a technology preview only:

- Remote Events and Listeners (Hot Rod)
- Hot Rod C# Client



### WARNING

Technology Preview features are not supported with Red Hat production service level agreements (SLAs), may not be functionally complete, and are not recommended to be used for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

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## APPENDIX A. REVISION HISTORY

<b>Revision 6.4.0-2</b> Updated version.	<b>Wed Apr 1 2015</b>	<b>Christian Huffman</b>
<b>Revision 6.4.0-1</b> BZ-1108440: Updated table.	<b>Mon Jan 12 2015</b>	<b>Rakesh Ghatvisave</b>
<b>Revision 6.4.0-0</b> BZ-1108440: Updated features list for final release. BZ-1108440: Implemented feedback. BZ-1108440: Implemented additional feedback.	<b>Wed Jan 07 2015</b>	<b>Rakesh Ghatvisave</b>