



# Red Hat JBoss Enterprise Application Platform 8.0

## Red Hat JBoss EAP XP 5.0 release notes

For Use with JBoss EAP XP 5.0



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## Abstract

This document provides general information about the JBoss EAP XP 5.0 release.

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## MAKING OPEN SOURCE MORE INCLUSIVE

Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see [our CTO Chris Wright's message](#).

## PROVIDING FEEDBACK ON JBOSS EAP DOCUMENTATION

To report an error or to improve our documentation, log in to your Red Hat Jira account and submit an issue. If you do not have a Red Hat Jira account, then you will be prompted to create an account.

### Procedure

1. Click the following link to [create a ticket](#).
2. Enter a brief description of the issue in the **Summary**.
3. Provide a detailed description of the issue or enhancement in the **Description**. Include a URL to where the issue occurs in the documentation.
4. Clicking **Submit** creates and routes the issue to the appropriate documentation team.



# CHAPTER 1. NEW FEATURES AND ENHANCEMENTS

## 1.1. JAKARTA EE

### Jakarta EE Core Profile

Jakarta EE 10 Core Profile is now available in JBoss EAP XP 5.0.0. The Core Profile is a small, lightweight profile that provides Jakarta EE specifications suitable for smaller runtimes, such as microservices and cloud services. The Jakarta EE 10 Core Profile is available as a Galleon provisioning layer, **ee-core-profile-server**.

An example configuration file **standalone-core-microprofile.xml** is provided with JBoss EAP XP 5.0.0 in the **EAP\_HOME/standalone/configuration** directory.

## 1.2. MICROPROFILE

### MicroProfile Telemetry

The JBoss EAP XP 5.0.0 provides support for MicroProfile Telemetry through the **microprofile-telemetry** subsystem. This subsystem builds on top of the existing OpenTelemetry subsystem and replaces MicroProfile OpenTracing to provide tracing functionality. For more information, see [MicroProfile Telemetry in JBoss EAP](#) and [MicroProfile Telemetry administration](#) in Using JBoss EAP XP 5.0.

### Configure root directories as ConfigSources

You can now specify a root directory for multiple MicroProfile ConfigSource directories. This means that you do not need to define multiple ConfigSource directories if they share the same parent root directory. For more information, see [Configuring root directories as ConfigSources](#) in Using JBoss EAP XP 5.0.

### Support for MicroProfile Long Running Action (LRA)

JBoss EAP XP provides MicroProfile Long Running Action (LRA), a standalone MicroProfile specification providing an API for distributed transactions handling based on the saga pattern. This provides a way for transaction handling without the need of taking locks on the data handled in the transaction. For more information, see [EAP XP 5 - MicroProfile LRA with Narayana](#).



### IMPORTANT

MicroProfile Long Running Action is provided as Technology Preview only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs), might not be functionally complete, and Red Hat does not recommend to use them for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

See [Technology Preview Features Support Scope](#) on the Red Hat Customer Portal for information about the support scope for Technology Preview features.

### Support for MicroProfile Reactive Messaging 3.0

JBoss EAP XP 5.0 includes an Advanced Message Queuing Protocol (AMQP) connector with MicroProfile Reactive Messaging. You can use the AMQP connector to connect with AMQ-compliant brokers for asynchronous messaging. For more information, see [MicroProfile Reactive Messaging connectors](#).

### Red Hat AMQ Streams

Using Red Hat AMQ Streams with MicroProfile Reactive Messaging on Red Hat OpenShift Container Platform is now fully supported. In the previous release, the support for Red Hat AMQ Streams with MicroProfile Reactive Messaging was technology preview.

## 1.3. MICROMETER

### Support for Micrometer subsystem

The JBoss EAP XP 5.0 provides support for Micrometer subsystem and replaces MicroProfile Metrics subsystem. The **MeterRegistry** of Micrometer is now accessible through CDI, allowing for the inclusion of application metrics with server and JVM metrics. This integration improves monitoring capabilities, providing a solution for tracking system and application performance metrics. For more information, see [Micrometer in JBoss EAP](#) and [Micrometer administration](#) in Using JBoss EAP XP 5.0.

## 1.4. QUICKSTARTS

### Supported JBoss EAP XP 5.0 quickstarts

All supported JBoss EAP XP 5.0 quickstarts are located at [jboss-eap-quickstarts](#).

The following quickstarts are supported and included with JBoss EAP XP 5.0:

Quickstart Name	Demonstrated Technologies	Description	Experience Level Required
micrometer	Micrometer	The <b>micrometer</b> quickstart demonstrates the use of the Micrometer library in 5.0.	Beginner
microprofile-config	MicroProfile Config	The <b>microprofile-config</b> quickstart demonstrates the use of the MicroProfile Config specification in 5.0.	Beginner
microprofile-fault-tolerance	MicroProfile, Fault Tolerance	The <b>microprofile-fault-tolerance</b> quickstart demonstrates how to use Eclipse MicroProfile Fault Tolerance in 5.0.	Intermediate
microprofile-health	MicroProfile Health	The <b>microprofile-health</b> quickstart demonstrates the use of the MicroProfile Health specification in 5.0.	Beginner
microprofile-jwt	JWT, Security, MicroProfile	The <b>microprofile-jwt</b> quickstart demonstrates the use of the MicroProfile JWT specification in 5.0.	Intermediate
microprofile-lra	MicroProfile LRA	The <b>microprofile-lra</b> quickstart demonstrates the use of the MicroProfile LRA specification in 5.0.	Beginner
microprofile-openapi	MicroProfile OpenAPI	This guide demonstrate how to use the MicroProfile OpenAPI functionality in 5.0 to expose an OpenAPI document for a simple REST application.	Beginner

Quickstart Name	Demonstrated Technologies	Description	Experience Level Required
microprofile-reactive-messaging-kafka	MicroProfile Reactive Messaging	The <b>microprofile-reactive-messaging-kafka</b> quickstart demonstrates the use of the MicroProfile Reactive Messaging specification backed by Apache Kafka in 5.0.	Beginner
microprofile-rest-client	MicroProfile REST Client	The <b>microprofile-rest-client</b> quickstart demonstrates the use of the MicroProfile REST Client specification in 5.0.	Beginner
opentelemetry-tracing	OpenTelemetry Tracing	The <b>opentelemetry-tracing</b> quickstart demonstrates the use of the OpenTelemetry tracing specification in 5.0.	Beginner

The following quickstarts are not supported and not included with JBoss EAP XP 5.0:

**microprofile-metrics**  
**microprofile-opentracing**  
**todo-backend**



### IMPORTANT

The JBoss EAP XP Quickstarts for Openshift are provided as Technology Preview only. Technology Preview features are not supported with Red Hat production service level agreements (SLAs), might not be functionally complete, and Red Hat does not recommend to use them for production. These features provide early access to upcoming product features, enabling customers to test functionality and provide feedback during the development process.

See [Technology Preview Features Support Scope](#) on the Red Hat Customer Portal for information about the support scope for Technology Preview features.

## CHAPTER 2. MAINTENANCE SUPPORT

### 2.1. MAINTENANCE SUPPORT FOR JBOSS EAP XP

When a new JBoss EAP XP major version is released, maintenance support for the previous major version begins. Maintenance support usually lasts for 12 weeks.

If you use a JBoss EAP XP major version that is outside of its maintenance support length, you might experience issues as the development of security patches and bug fixes no longer apply. To avoid such issues, upgrade to the newest JBoss EAP XP major version release that is compatible with your JBoss EAP version.

#### Additional resources

- For information about maintenance support, see the [Red Hat JBoss Enterprise Application Platform expansion pack \(JBoss EAP XP or EAP XP\) Life Cycle and Support Policies](#) located on the Red Hat Customer Portal.

## CHAPTER 3. UNSUPPORTED FEATURES AND DEPRECATED FEATURES

### 3.1. UNSUPPORTED FEATURES

Support for some technologies is removed due to the high maintenance cost, low community interest, and better alternative solutions. The following features are not supported in JBoss EAP XP 5.0:

#### MicroProfile Metrics

MicroProfile Metrics is no longer supported, and is replaced by Micrometer.

#### MicroProfile OpenTracing

MicroProfile OpenTracing is no longer supported, and is replaced by OpenTelemetry Tracing.

#### Red Hat OpenShift Streams for Apache Kafka

Since Red Hat no longer offers Red Hat OpenShift Streams for Apache Kafka (RHOSAK), the MicroProfile Reactive Messaging with Kafka quickstart has been updated to not demonstrate connecting to RHOSAK.

#### Snappy compression disabled for Windows systems

JBoss EAP XP 5.0 does not support Snappy compression on Windows platforms for the MicroProfile Reactive Messaging Kafka connector. The Kafka connector for MicroProfile Reactive Messaging introduced Snappy compression in JBoss EAP XP 4.0.2 using Snappy version 1.1.8.4. However, Java Snappy compression was removed in version 1.1.9.0 of Snappy due to data corruption concerns. JBoss EAP XP 5.0 now uses the latest version of Snappy, 1.1.10.5, which uses native code for compression. The Red Hat build of the Snappy jar includes only the Linux natives.

#### MicroProfile Reactive Messaging Kafka client

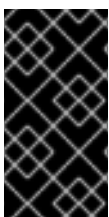
The MicroProfile Reactive Messaging Kafka client available with JBoss EAP XP 5.0 is not supported on Windows platforms.

For a complete list of unsupported features in JBoss EAP 8.0, see the [Unsupported features](#) section in JBoss EAP 8.0 Release Notes.

### 3.2. DEPRECATED FEATURES

Some features have been deprecated with this release. This means that no enhancements are made to these features, and they might be removed in the future, usually the next major release. For more information, see [Deprecated features in Red Hat JBoss Enterprise Application Platform expansion pack \(EAP XP\) 5](#).

Red Hat continues to provide full support and bug fixes under our standard support terms and conditions. For more information about the Red Hat support policy for JBoss EAP XP, see the [Red Hat JBoss Enterprise Application Platform expansion pack life cycle and support policies](#) located on the Red Hat Customer Portal.



#### IMPORTANT

All of the features that were deprecated in Red Hat JBoss Enterprise Application Platform 8.0 are also deprecated in JBoss EAP XP 5.0.0. For more information about deprecated features in JBoss EAP 8.0, see [Deprecated features in the Release notes for Red Hat JBoss Enterprise Application Platform 8.0](#).

### **JBoss EAP OpenShift templates**

JBoss EAP templates for OpenShift are removed.

### **Legacy patching for bootable jar**

The legacy patching feature for bootable jar is removed.

## CHAPTER 4. RESOLVED ISSUES AND KNOWN ISSUES

### 4.1. RESOLVED ISSUES

See [Resolved issues for JBoss EAP XP 5.0.0](#) to view the list of issues that have been resolved for this release.

### 4.2. KNOWN ISSUES

See [Known issues for JBoss EAP XP 5.0.0](#) to view the list of known issues for this release.