Oracle® Communications Billing and Revenue Management

Compatibility Matrix



Release 16.26.0
G54453-01
October 2026



Oracle Communications Billing and Revenue Management Compatibility Matrix, Release 16.26.0

G54453-01

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About This Content

This guide describes the compatibility considerations and software and hardware requirements you should review when installing or upgrading the following Oracle Communications Billing and Revenue Management (BRM) Suite components:

- BRM server and clients
- Oracle Communications Billing Care
- Oracle Communications Business Operations Center
- Oracle Communications Pricing Design Center (PDC)
- Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE)
- Oracle Communications Billing and Revenue Management Pipeline Configuration Center (PCC)
- Oracle Communications Billing and Revenue Management (BRM) cloud native deployment

Audience

This document is intended for system administrators responsible for product installations, upgrade planning, and patch set installations.

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BRM Suite Compatibility

Learn about the compatibility between the different Oracle Communications Billing and Revenue Management (BRM) 16.26.0 Suite components. Review this information before installing or upgrading BRM.

Oracle uses the following terminology to refer to releases:

- **Major release**: Represented by the first number in the version string (e.g., **16** in 16.26.0.0.0). It indicates the major version of the product.
- **Minor release**: Represented by the second number in the version string (e.g., **26** in 16.26.0.0.0). It indicates the year of the minor release (in this case, **2026**).
- Maintenance release: For example, 16.26.1.0.0
- Patch Set: For example, 16.26.1.1.0
- Patch/Hot Fix: For example, 16.26.1.1.1

All of the BRM components must use the same version, down to the Patch Set level. Only the Patch/Hot Fix level can be different. This applies to the following components:

- BRM
- Elastic Charging Engine (ECE)
- Pricing Design Center (PDC)
- Billing Care
- Business Operations Center
- Pipeline Configuration Center
- Offline Mediation Controller

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Supported Upgrades

Learn about the commonly supported upgrade paths for Oracle Communications Billing and Revenue Management (BRM) 16.26.0 Suite components.

Topics in this document:

- Supported BRM Upgrades

Supported BRM Upgrades

Table 2-1 lists the supported upgrade paths for the BRM 16.26.0 Suite components: BRM, Elastic Charging Engine (ECE), and Pricing Design Center (PDC). This also includes Billing Care, Business Operations Center, Pipeline Manager, and Pipeline Configuration Center. This applies to both on-premises and cloud native upgrades, as well as upgrades from on-premises to cloud native environments.

> **Note**
>
> For upgrades from versions prior to BRM 15.0 please contact Oracle Support for guidance and availability of upgrade paths.

Table 2-1 BRM and ECE Upgrade Paths to 16.26.0

Version	Upgrade with Downtime (BRM with ECE and PDC)	Zero Downtime Upgrade Using Second Deployment (BRM with ECE and PDC)	Zero Downtime Upgrade on a Single Instance Using Rolling Upgrades (BRM with ECE and PDC)	Zero Downtime Upgrade on a Single Instance Using Rolling Upgrades (BRM only)
15.2.0	Yes	Yes	No	Yes
15.1.0	Yes	Yes	No	Yes
15.0.1	Yes	Yes	No	Yes
15.0.0	Yes	Yes	No	Yes

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Common Software Compatibility

Learn about the common software that is compatible with Oracle Communications Billing and Revenue Management (BRM), Pricing Design Center (PDC), and Elastic Charging Engine (ECE) 16.26.0 servers and client systems.

Topics in this document:

- Supported Common Software

Supported Common Software

Table 3-1 lists the supported common software for cloud native and on-premises deployments.

Table 3-1 Supported Common Software

Software	BRM 16.26.0	Notes
Apache Kafka	4.x (where x >= 3)	
Compilers	gcc version 12.2.1	None.
Oracle Linux	9.x (where x >= 7) 10.x	Applicable to non-cloud native deployments only. Oracle Linux should be patched with any applicable critical patch updates. **Note:** Oracle Applications are developed and tested on Oracle Linux, which is optimized for performance, stability, and security.
Red Hat Enterprise Linux (RHEL)	9.x (where x >= 7) 10.x	Applicable to non-cloud native deployments only. RHEL should be patched with any applicable critical patch updates. **Note:** Oracle Applications are developed and tested on Oracle Linux, which is optimized for performance, stability, and security.
Oracle Database Client	26ai (23.26)	Use Oracle Database Client 26ai (23.26) with Oracle Database Enterprise Edition 26ai (23.26).
Oracle Database Enterprise Edition	26ai (23.26)	The Oracle Database must be in close network proximity to the BRM application, in an environment and configuration that is officially supported by Oracle.

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Table 3-1 (Cont.) Supported Common Software

Software	BRM 16.26.0	Notes
Oracle Java Platform, Standard Edition (Java SE)	Java 21.0.12	None.
Web Browsers	Apple Safari: 18 or later Google Chrome: 137 or later Microsoft Edge: Default version with OS Mozilla Firefox: 140 or later	None.

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Cloud Native Deployment Software Compatibility

Learn about the software compatible with all components in the Oracle Communications Billing and Revenue Management (BRM) cloud native deployment package. This package uses Kubernetes, Helm, and Linux for containerization and orchestration.

Topics in this document:

- Mandatory Cloud Native System Requirements
- ECE Composable Services Software Compatibility Requirements
- Optional Cloud Native System Requirements for Monitoring
- Optional Cloud Native Software
- Additional Notes

> **⚠ Caution**
>
> - Your system administrator is responsible for ensuring that all installed software dependencies are kept up to date wherever possible. Oracle supports software versions where the software vendor declares backward compatibility to the version certified with BRM, and the upgrade is a minor version increment (A.B.C to A.B.D).
>
> System administrators should adopt this policy for software dependencies for which upgrades are generally related to security rather than focusing on functionality.
> - Oracle does not provide support for any prerequisite third-party software installation or configuration. The customer should manage any installation or configuration issues related to non-Oracle prerequisite software.

Mandatory Cloud Native System Requirements

Docker images require the third-party software listed in Table 4-1.

> **ⓘ Note**
>
> Oracle does not provide any third-party software mentioned in the table below. You must obtain and install the required third-party software before using the product.

Table 4-1 Mandatory Cloud Native System Requirements

Software	BRM 16.26.0
Kubernetes	1.35

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Table 4-1 (Cont.) Mandatory Cloud Native System Requirements

Software	BRM 16.26.0
Helm	4.2 when using Kubernetes 1.35
WebLogic Kubernetes Operator	4.3.*x* when using Kubernetes 1.35 (x>=14)

ECE Composable Services Software Compatibility Requirements

The ECE composable services require the software listed in Table 4-2.

Table 4-2 Mandatory ECE Composable Service Requirements

Software	BRM 16.26.0
Oracle cnDBTier	25.2.201

Optional Cloud Native System Requirements for Monitoring

Table 4-3 lists the software used to validate the sample Grafana dashboards for monitoring your cloud native system.

Table 4-3 Optional Cloud Native System Requirements for Monitoring

Software	BRM 16.26.0
Grafana	13.0.2
Prometheus	3.12.0
Prometheus Alertmanager	0.33.0
Prometheus JMX Exporter Java Agent	1.6.0
Prometheus Operator	0.92.0
WebLogic Monitoring Exporter	4.3.15

Optional Cloud Native Software

Table 4-4 lists the optional software for cloud native systems.

Table 4-4 Optional Cloud Native System Requirements

Software	BRM 16.26.0
Fluentd	1.19.0

Additional Notes

Oracle Kubernetes Platforms

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BRM cloud native is certified on the Container Engine for Kubernetes (OKE), Oracle Communications Cloud Native Environment, and Oracle Linux Cloud Native Environment (provided the version requirements listed in this document are satisfied).

Third-Party Kubernetes Platforms

BRM cloud native is designed to be independent of the underlying cloud infrastructure. It relies on standard APIs, objects, and configuration functions from the software products listed in this document. As such, BRM cloud native is supported on any container platform based on CNCF-certified Kubernetes, provided the version requirements listed in this document are satisfied.

OCI Search with OpenSearch

BRM cloud native is compatible with OCI Search with OpenSearch. See "Search with OpenSearch" on the Oracle website for more details.

Operating System for Kubernetes Nodes

BRM supports any Linux version that is supported by the specified version of your chosen Kubernetes platform.

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External Applications Compatibility

Learn about the external applications compatible with Oracle Communications Billing and Revenue Management (BRM), Pricing Design Center (PDC), and Elastic Charging Engine (ECE) 16.26.0 servers and client systems.

Topics in this document:

- Additional External Applications Compatibility

Additional External Applications Compatibility

Table 5-1 provides the compatibility information for other external applications you need to create a complete customer management and billing system for your business.

Table 5-1 Additional External Applications Compatibility

Product	BRM 16.26.0
Oracle Analytics Publisher **Note:** Business Intelligence Publisher has been renamed to Oracle Analytics Publisher.	2026
Oracle Identity and Access Management	14.1.2.1
Oracle Unified Directory	14.1.2.1
Paymentech 120-Byte Batch Processing Format Specification	3.0.0 Revision 15.3
Paymentech Online Processing Format Specification	Version 7.4 Revision 15.3
Vertex Indirect Tax O Series	9.0 REST API version v2
Vertex Communications Tax Q Series (CTQ)	3.02
Vertex Sales Tax Q Series (STQ)	11.1

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BRM Non-Cloud Native Prerequisites

Learn about the software compatible with Oracle Communications Billing and Revenue Management (BRM) 16.26.0 server and client systems.

Topics in this document:

- Windows
- Additional BRM Software Requirements
- About Critical Patch Updates

See "System Requirements" in *BRM Installation Guide* for hardware and information requirements.

> **Note**
>
> - BRM 15.*x* server components do not support any 32-bit server operating systems.
> - Character Sets: BRM 16.26.0 supports AL32UTF8 as its default character set. It also continues to support the UTF8 character set for backward compatibility. The Unicode character set AL32UTF8 is recommended for all new BRM 16.26.0 deployments.
> - All BRM clients are supported on Linux in addition to Windows.
> - This section applies to non-cloud native deployments only. For cloud native deployments, the BRM container images include all required prerequisites.

Windows

This section lists software compatible with BRM clients on Windows.

- Windows 11

Additional BRM Software Requirements

Table 6-1 provides the compatibility information for other applications you need to create a complete customer management and billing system for your business.

> **Note**
>
> Oracle does not provide any third-party software mentioned in the table below. You must obtain and install the required third-party software before using the product.

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Table 6-1 Required Third-Party Software for BRM

Software	BRM 16.26.0	Notes
Apache Kafka Client	4.x (where x >= 3)	None.
Oracle WebLogic Server	14.1.2	None.
Perl (64-bit)	5.42.2	None.
ojdbc11.jar	23.9.0.0.0 or later	Download a version compatible with DB26ai and JDK 21 from https://www.oracle.com/nl/database/technologies/appdev/jdbc-downloads.html

About Critical Patch Updates

You should install all critical patch updates as soon as possible. To download critical patch updates, find out about security alerts, and enable email notifications about critical patch updates, see "Critical Patch Updates, Security Alerts and Bulletins" on the Oracle website.

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ECE Non-Cloud Native Prerequisites

Learn about the software compatible with Oracle Communications Billing and Revenue Management Elastic Charging Engine (ECE) 16.26.0.

Topics in this document:

- Additional ECE Software Requirements

See "ECE System Requirements" in *ECE Installation Guide* for hardware and information requirements.

> **Note**
>
> This section applies to non-cloud native deployments only. For cloud native deployments, the BRM container images include all required prerequisites.

Additional ECE Software Requirements

Table 7-1 lists the required third-party software for ECE 16.26.0.

> **Note**
>
> Oracle does not provide any third-party software mentioned in the table below. You must obtain and install the required third-party software before using the product.

Table 7-1 Required Third-Party Software for ECE 16.26.0

Software	BRM 16.26.0	Notes
Apache Kafka Clients	4.x (where x >= 3)	None.
Groovy	4.0.28	The ECE software package does not include Groovy. Installing Groovy is a prerequisite for running ECE monitoring tools.
Oracle Coherence for Java Libraries	14.1.2	The ECE software package does not include Oracle Coherence libraries.

Table 7-2 lists the JAR files that are required during ECE installation.

Table 7-2 Required JAR Files

File	Description
coherence-login.jar	This file is available in the Oracle Coherence package.
coherence-work.jar	This file is available in the Oracle Coherence package.
coherence.jar	This file is available in the Oracle Coherence package.

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Table 7-2 (Cont.) Required JAR Files

File	Description
com.oracle.weblogic.bean gen.general.api.jar	This file is available in the Oracle WebLogic Server client package.
kvclient-25.1.14.jar	You must rename the file to **kvclient.jar** for the ECE installer to find it.
ojdbc11.jar	Download version compatible with DB26ai and jdk21 from https://www.oracle.com/nl/database/technologies/appdev/jdbc-downloads.html **Note:** Ensure you download the version 23.9.0.0.0 or later of the **ojdbc11.jar** file for the correct version of your database.
wlthint3client.jar	This file is available in the Oracle WebLogic Server client package. **Note:** If you choose to use two JMS providers, both WebLogic Server and another provider, ensure that you do the following after installation on the driver machine: • Copy the other JMS provider's client JARs to the *ECE_home***/ocecesever/lib** directory. • Rename the other JMS provider JAR file to **wlthint3client.jar**. • (When using the other JMS provider to publish ECE notification events) Update the *ECE_home***/ocecesever/JMSQueueConfiguration.xml** file to specify the InitialContextFactory and protocol information of the other JMS provider.
xdb6.jar	Download this file from the following page: https://www.oracle.com/database/technologies/appdev/jdbc-downloads.html

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