

Oracle® Communications Unified Inventory Management

Compatibility Matrix

Release 7.5.1

F74337-04

December 2023

UIM Software Compatibility

This document lists the software compatible with Oracle Communications Unified Inventory Management (UIM), Unified Topology for Inventory and Automation (UTIA), Unified Operations Message Bus, and Oracle Access Manager (OAM).

See the following sections for details:

- [Unified Inventory and Topology Microservices](#)
- [UIM Cloud Native Deployment Software Compatibility](#)
- [UIM Traditional Deployment Software Compatibility](#)

Unified Inventory and Topology Microservices

This section lists the Unified Inventory and Topology microservices, the corresponding versions, and any interdependencies.

Table 1-1 Recommended Versions of Unified Inventory and Topology Microservices

Microservice	Versions
Unified Inventory Management (UIM)	7.5.1.2.0
Unified Topology for Inventory and Automation (UTIA)	1.0.0.2.0
Oracle Communications Unified Operations Message Bus	1.0.0.2.0
Oracle Access Manager (OAM)	12.2.1.4.0

UIM Cloud Native Deployment Software Compatibility

This section lists the software compatible with the Oracle Communications Unified Inventory Management (UIM) cloud native deployment package.

Table 1-2 Supported Software for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Ant	1.10.x (x >= 10)	NA	NA	NA	Optional Ant is required for direct ant-based integration with the various tools in the UIM SDK including the Compliance tool for Cartridge Deployment using CMT.
Apache Kafka	3.5.1	3.5.1	3.5.1	NA	NA
Apache log4j	2.19.0	2.19.0	NA	2.19.0	This is a developer tool.
Drools	7.73.0	NA	NA	NA	This is a developer tool.
Eclipse	4.8.0 (Photon)	NA	NA	NA	This is a developer tool.
Grafana	8.0.1	8.0.1	8.0.1	8.0.1	https://grafana.github.io/helm-charts
Groovy	2.5.6	NA	NA	NA	This is a developer tool.
Helidon	NA	3.2.1	NA	NA	NA
Java	8 update 381 or later	17.0.7	NA	NA	Recommended versions as per the manifest file. See "UIM Cloud Native Manifest File".
JDeveloper Studio Generic	12.2.1.4	NA	NA	NA	NA
Maven	NA	3.8.8	NA	NA	NA
Oracle Analytics Server	6.4.0	NA	NA	NA	NA
Oracle Communications Service Catalog and Design	7.4.2.7 or later	NA	NA	NA	NA

Table 1-2 (Cont.) Supported Software for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Oracle Database (installed as Container Database)	19c	19c PGX 23.2.0	NA	19c	Enterprise Edition or Oracle OCI Database Service: Enterprise Edition High Performance / Oracle Grid Infrastructure.
Oracle Fusion Middleware infrastructure	12.2.1.4	NA	NA	12.2.1.4	NA
Spatial Map Visualization (Oracle Fusion Middleware Mapviewer)	12.2.1.4	NA	NA	NA	NA
Oracle Fusion Middleware Patches	October 2023 CPU or later: 35893811 35778804 34944256 35882299 35671137 35476067	NA	NA	NA	For the full list of recommended patches, see "UIM Cloud Native Manifest File" .
Oracle Graph Server	NA	23.2.0.0 (graph-server-23.2.0-pgx23.2.1.war)	NA	NA	NA
Oracle Linux	7.9 8.7	7.9 8.7	7.9 8.7	7.9 8.7	Recommended versions as per the manifest file. See "UIM Cloud Native Manifest File" .
Oracle Multitenant Container Database Patches	October 2023 CPU or later	October 2023 CPU or later	NA	October 2023 CPU or later	NA
Prometheus	2.31.1	2.31.1	2.31.1	2.31.1	https://prometheus-community.github.io/helm-charts

Table 1-2 (Cont.) Supported Software for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Strimzi Operator	NA	NA	0.37.0	NA	NA
Tomcat	NA	9.0.62	NA	NA	NA
Web browser	Google Chrome 93 or later Mozilla Firefox ESR 78.14 or later Microsoft Edge Chromium 93 or later	Google Chrome 93 or later Mozilla Firefox ESR 78.14 or later Microsoft Edge Chromium 93 or later	NA	NA	NA

Recommended Kubernetes Technology Stack

The following table lists the recommended versions of the software in the Kubernetes technology stack supported with UIM cloud native deployments.

 **Note:**

Oracle recommends that if you use any of the components listed in this table, then use only the versions of other components listed in this table.

Table 1-3 Recommended Versions of Kubernetes Technology Stack for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UIM Oracle Kubernetes Engine	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Kubernetes	1.27.x (x >= 2)	1.27.x (x >= 2)	1.27.x (x >= 2)	1.27.x (x >= 2)	1.27.x (x >= 2)	See "Container Platforms for UIM Cloud Native" for further details.
CRI-O	1.27.x (x >= 1)	1.27.x (x >= 1)	1.27.x (x >= 1)	1.27.x (x >= 1)	1.27.x (x >= 1)	CRI-O is required only in Kubernetes runtime environments.

Table 1-3 (Cont.) Recommended Versions of Kubernetes Technology Stack for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UIM Oracle Kubernetes Engine	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Docker	24.0 Linux version: 7.9	19.03.x (x >= 11) Linux version: 7.9	24.0 Linux version: 7.9	24.0 Linux version: 7.9	24.0 Linux version: 7.9	NA
Cluster Networking Interface (CNI)	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	See " WebLogic Kubernetes Operator Documentation " for further details.
Helm	3.13.0	3.11.2	3.13.0	3.13.0	3.13.0	NA
Oracle WebLogic Kubernetes Operator	4.1.x (x>=2) ghcr.io/oracle/weblogic-kubernetes-operator:version	4.1.x (x>=2) ghcr.io/oracle/weblogic-kubernetes-operator:version	NA	NA	4.1.x (x>=2) ghcr.io/oracle/weblogic-kubernetes-operator:version	Download this software from: https://oracle.github.io/weblogic-kubernetes-operator/ .
WebLogic Deploy Tool (WDT)	3.2.3	3.2.3	3.2.3	3.2.3	3.2.3	Download this software from: https://github.com/oracle/weblogic-deploy-tooling/releases/tag/release-3.2.3
WebLogic Image Tool (WIT)	1.11.11	1.11.11	1.11.11	1.11.11	1.11.11	Download this software from: https://github.com/oracle/weblogic-image-tool/releases/tag/release-1.11.11

Table 1-3 (Cont.) Recommended Versions of Kubernetes Technology Stack for Cloud Native Deployment Package of UIM 7.5.1.2.0, UTIA 1.0.0.2.0, Unified Operations Message Bus 1.0.0.2.0, and OAM 12.2.1.4

Software	Version for UIM	Version for UIM Oracle Kubernetes Engine	Version for UTIA	Version for Unified Operations Message Bus	Version for OAM	Notes
Traefik	2.10.4 Chart version 24.0.0	2.10.4 Chart version 24.0.0	2.10.4 Chart version 24.0.0	2.10.4 Chart version 24.0.0	2.10.4 Chart version 24.0.0	For details, see: https://artifacthub.io/packages/helm/traefik/traefik .
Podman	4.4.1 Linux version: 8.7 and above	4.4.1	4.4.1 Linux version: 8.7 and above	4.4.1 Linux version: 8.7 and above	4.4.1 Linux version: 8.7 and above	NA

Earlier and Supported Versions of Kubernetes Technology Stack

The following table lists the earlier and still supported versions of software in the Kubernetes technology stack for UIM cloud native deployments. For software not listed in the table, use the appropriate version in [Table 1-3](#).

 **Note:**

Oracle highly recommends uptaking the stack versions listed in [Table 1-3](#).

Table 1-4 Earlier and Supported Versions of Kubernetes Technology Stack for UIM Cloud Native Deployment Package 7.5.1.x.0 (x >= 0)

Software	Version	Notes
Kubernetes	1.26.x (x >= 7) 1.25.4	See " Container Platforms for UIM Cloud Native " for further details.
CRI-O	1.26.4 1.25.1	CRI-O is required only in Kubernetes runtime environments.
Docker	19.03.x (x >= 1) 20.10	NA

Table 1-4 (Cont.) Earlier and Supported Versions of Kubernetes Technology Stack for UIM Cloud Native Deployment Package 7.5.1.x.0 (x >= 0)

Software	Version	Notes
Cluster Networking Interface (CNI)	UIM cloud native is certified for the same CNI plugins and versions specified by the WebLogic Kubernetes Operator version listed in this table.	See " WebLogic Kubernetes Operator Documentation " for further details.
Helm	3.12.0 3.11.2	NA
Oracle WebLogic Kubernetes Operator	4.1.0 4.0.5 4.0.4 ghcr.io/oracle/weblogic-kubernetes-operator:version	Download this software from: https://oracle.github.io/weblogic-kubernetes-operator/ .
Traefik	2.9.10 Chart versions 15.1.0 and 22.1.0 2.9.x (x >= 1) Chart version 15.1.0	For details, see: https://artifacthub.io/packages/helm/traefik/traefik .

UIM Cloud Native Manifest File

The UIM cloud native manifest file tracks updates and patches to the following software:

- Java
- Oracle Fusion Middleware, including patches
- Oracle Linux

Oracle updates the manifest files to track Critical Patch Updates for all these components. You are encouraged to uptake the manifests as they are released.

To download the manifest file, see the [UIM Cloud Native Manifest Files \(Doc ID 2823096.1\)](#) knowledge article on My Oracle Support.

For information on how to use the manifest file to build your UIM cloud native images, see "Creating UIM Cloud Native Images" in *UIM Cloud Native Deployment Guide*.

Container Platforms for UIM Cloud Native

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

UIM cloud native has been tested on a standard "upstream" (kubernetes.io) deployment of Kubernetes on Linux VM and bare metal (private lab and IaaS). UIM cloud native has also been tested on the Oracle OCI OKE platform with Oracle Multitenant Database via co-located Oracle Database Service (Bare Metal, VM, and ExaData). UIM cloud native includes specific support for OCI and OKE.

Other Kubernetes distributions and container platforms may impose their own operational, security, and configuration requirements. These would have to be addressed as part of the uptake of UIM cloud native, with support from the third-party provider.

An important requirement is the presence of an Oracle Multitenant Container Database in close network proximity to the platform, in an environment and configuration that is officially supported by Oracle.

UIM Traditional Deployment Software Compatibility

This section describes the software required to support the UIM components for traditional deployment.

 **Note:**

For all operating systems, check the Oracle Database documentation for any additional operating system patches required to support the database.

Table 1-5 Supported Software for UIM Traditional Deployment

Component	Product	Notes
Oracle Fusion Middleware	JDeveloper Studio Generic 12.2.1.4	NA
Oracle Fusion Middleware	Oracle Analytics Server 5.9.0	NA
Spatial Map Visualization (Oracle Fusion Middleware Mapviewer)	12.2.1.4	NA
Server Operating System	Oracle Linux 7.9 Oracle Linux 8.7	Oracle products certified on Oracle Linux are also supported on Red Hat Enterprise Linux due to implicit compatibility between both distributions. Oracle does not run any additional testing on Red Hat Enterprise Linux products. Oracle recommends the latest available update, because later updates may provide modest performance gains.
Server Operating System	Solaris 11.x (x >= 3)	Supported on Sparc platforms only.

Table 1-5 (Cont.) Supported Software for UIM Traditional Deployment

Component	Product	Notes
Server Operating System	Windows 10	For development, demonstration, and test environments. Not for production use.
Server Operating System	IBM AIX 7.x (x >= 1)	NA
Server Operating System	HP-UX 11.31	NA
Web Browser	Microsoft Edge Chromium 87 or later Google Chrome 88 or later Mozilla Firefox ESR 79 or later	NA
Database Server	Oracle Database 19c	Enterprise Edition or Oracle OCI Database Service: Enterprise Edition High Performance / Oracle Grid Infrastructure. The database should not be installed on a Microsoft Windows system for a production environment. Microsoft Windows can be used for development, demonstration, and test environments.
Oracle Database Patches	October 2023 CPU or later	Oracle recommends the latest available CPU. Recommended versions as per the manifest file. See " UIM Cloud Native Manifest File ".
Java	8 update 381 or later for Linux, Solaris, and Windows (Recommended) 8.0 SR6 FP20 or later for AIX 8.0.21 or later for HP-UX	Recommended versions as per the manifest file. See " UIM Cloud Native Manifest File ".
Application Server	Oracle Fusion Middleware Infrastructure 12.2.1.4	Fusion Middleware Infrastructure is included in the UIM software media pack. It includes Oracle WebLogic Server, Oracle Coherence, and Oracle Application Development Framework (ADF).

Table 1-5 (Cont.) Supported Software for UIM Traditional Deployment

Component	Product	Notes
Application Server	Fusion Middleware Patches October 2023 CPU or later: 35893811 35778804 34944256 35882299 35671137 35476067	Oracle recommends the latest available CPU along with the additional patches listed. Recommended versions as per the manifest file. See " UIM Cloud Native Manifest File ".
Build Tool	Ant 1.10.x (x >= 10)	Ant is required for using various tools in the UIM SDK including UIM cartridge management tools. To ensure the tools function correctly, all copies of Ant in use must have the same version number.
Cloud IaaS Support	<ul style="list-style-type: none"> Oracle Cloud Infrastructure Amazon Web Services Elastic Computing (EC2) 	UIM is not certified for Amazon Relational Database Service.
Cartridge Development	Oracle Communications Service Catalog and Design - Design Studio 7.4.2.7.0. or later	
Prometheus	2.31.1	https://prometheus-community.github.io/helm-charts
Grafana	8.0.1	https://grafana.github.io/helm-charts
Groovy	2.5.6	This is a developer tool.
Drtools	7.73.0	This is a developer tool.
Eclipse	4.8.0 (Photon)	This is a developer tool.
Apache log4j	2.19.0	This is a developer tool.

Design Studio Installation and Version Compatibility

For Oracle Communications Service Catalog and Design - Design Studio plug-in installation information, see *Design Studio Installation Guide*.

About Critical Patch Updates

UIM is supported on all Oracle Critical Patch Updates. You should install the latest Critical Patch Updates and overlay patches as soon as possible. To download Critical Patch Updates, find out about security alerts, and enable email notifications about

Critical Patch Updates. See the Critical Patch Updates, Security Alerts and Bulletins page:

<https://www.oracle.com/security-alerts/>

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