Oracle® Communications ASAP

Release Notes

Release 7.4

F40781-04

December 2024

Release Notes

This document provides release notes for Oracle Communications ASAP release 7.4.

Software Compatibility

See *ASAP Compatibility Matrix* for a full list of software requirements.

ASAP 7.4.0.2 New Features

This release includes the following features and enhancements:

High Availability in Order Balancer

You can now install multiple Order Balancer instances in ASAP traditional and cloud native deployments for high availability. With multiple Order Balancer running, when an instance goes down, the other Order Balancer instances routes the incoming orders to the available ASAP instances in the environment.

For more information about high availability in Order Balancer, see *ASAP System Administrator's Guide*.

High availability in Order Balancer is also supported in ASAP cloud native deployments. For more information, see *ASAP Cloud Native Deployment Guide*.

Support for Secured Communication (TCPS) Access to Oracle Database

You can now configure Secured Communication(TCPS) Access from ASAP to Oracle Database. This allows ASAP to communicate with the database over a secure channel.

Order Control Application- Searching Orders without Date Range

In the Order Control Application (OCA), you can now search orders using any query criteria without specifying the start date and end date. In OCA, in the **Work Order Query** window, a new check box **Use Date Range** is added which is selected by default to maintain the existing search criteria. Selecting the check box includes the **Start Date** and **End Date** fields in the search criteria. The start date has the default value as the current date and the end date has the default value as the next day of the current date. For example, if the start date is defaulted to the current date 19/12/2022, the end date is 20/12/2022. You can enter the end date to be any date within a week from the start date. If you enter the end date more than a week from the start date, an appropriate error message is displayed.

Deselect the check box **Use Date Range** to exclude the start date and end date in the search criteria. Deselecting the check box disables the **Start Date** and **End Date** fields. You can enter any of the fields to search for the work orders without the date range. All the fields including Use Date Range check box are disabled when WO ID and Parent WO ID are entered.

Order Control Application- Drop-down List for Parm Label in the Search Criteria

In the Order Control Application (OCA), in the **Work Order Query** window, the **Parm Label** field is now displayed as a drop-down list. The Parm Label field defaults to have no value. You can enter any value in the **Parm Label** field or click the drop-down list to choose a parameter from the list. The drop-down list displays all the parameters for all the Common Service Description Layers (CSDLs) irrespective of the CSDL selected in the CSDL drop-down list.

ASAP 7.4.0.1 New Features

This release includes the following features and enhancements:

- Automatically Create ASAP Docker Image and Order Balancer Docker Image
- Restarting the Failed ASAP Instances Automatically

Automatically Create ASAP Docker Image and Order Balancer Docker Image

You can now automatically build the ASAP Docker image and the Order Balancer Docker image using a single script. You can build multiple ASAP Docker images by updating the **asap.properties** file accordingly.

For more information, see "Creating the ASAP Cloud Native Image" and "Creating the Order Balancer Cloud Native Image" in *ASAP Cloud Native Deployment Guide.*

Restarting the Failed ASAP Instances Automatically

ASAP now supports restarting the ASAP instances automatically to restore the services when an ASAP instance fails. Kubernetes uses liveness and readiness probes to find the failed ASAP instances and restart those instances to restore the services automatically. You configure the readiness and liveness probes in Kubernetes in **$ASAP_CNTK/charts/asap/values.yaml** file.

For more information on readiness and liveness probes, see "Configuring the Failed ASAP Instances to Restart Automatically" in *ASAP Cloud Native Deployment Guide*.

Zero Downtime Upgrade for Order Balancer in Traditional Deployment

In a traditional deployment, you can now upgrade Order Balancer by continuously processing the order requests without any disruption. A newer version of Order Balancer can be installed while the older version is still running. The new incoming order requests are processed by the newer version of Order Balancer after installation, while the in-progress order requests are processed by the older version of Order Balancer. After the in-progress order requests are processed, the older version of Order Balancer is retired and then deactivated. You can undeploy the older version completely or roll back to the older version, if the upgrade fails.

For more information on upgrading Order Balancer, see "Updating and Redeploying Order Balancer" in *ASAP System Administrator's Guide*.

New Features Supported by ASAP Order Balancer REST Services

You can use REST APIs to view and update data about the ASAP member instances in Order Balancer. REST services now support the following new features:

- **Add ASAP member instance**: Adds the ASAP instance to Order Balancer.

  HTTP Request Type: POST

URI Path: /ASAPOB/asapinstances

- **Remove ASAP member instance**: Removes the ASAP instance from Order Balancer for the given instance ID.

  HTTP Request Type: DELETE

  URI Path: /ASAPOB/asapinstances/{instanceid}

For more information on supported REST Services, see "Accessing and Updating Order Balancer using REST APIs" in *ASAP System Administrator's Guide*.

ASAP 7.4 New Features

This release includes the following features and enhancements:

- ASAP Cloud Native Deployment
- High Availability in ASAP Using Order Balancer
- View ASAP Metrics Using Prometheus and Grafana
- Support for Oracle Analytics Server for Generating Reports

ASAP Cloud Native Deployment

ASAP 7.4 introduces the ability to deploy, manage, and monitor ASAP in a cloud native environment using container images, Kubernetes clusters, Prometheus, Grafana, and other components.

You can now deploy ASAP in a Kubernetes-based shared cloud (cluster). With ASAP deployed in a cloud native environment, you can achieve several benefits. The following are some benefits:

- Choice of deployment on private cloud or public cloud infrastructure.
- Reduced installation time and environment replication time.
- Robust, repeatable, and auditable installation and configuration process.
- Reduced total cost of ownership with reduced hardware utilization.
- Reduced downtime during maintenance processes.
- Automated recovery in case of node and pod failures to avoid outages.
- Automated system lifecycle management.
- Faster time-to-market for new services.

ASAP cloud native supports the following deployment models:

- **On Private Kubernetes Cluster**: ASAP cloud native is certified for a general deployment of Kubernetes.
- **On Oracle Cloud Infrastructure (OCI) Container Engine for Kubernetes (OKE)**: ASAP cloud native is certified to run on Oracle's hosted Kubernetes OKE service.

ASAP cloud native provides a toolkit that includes utility scripts, Helm charts, default configuration files, and samples required to deploy ASAP in a Kubernetes environment, following standard practices such as versioned Helm releases.

For instructions on planning and setting up your cloud native environment, see *ASAP Cloud Native Deployment Guide*.

For information about the supported versions of required and third-party software, see *ASAP Compatibility Matrix*.

For information about the differences between ASAP cloud native and traditional deployments, see "Differences Between ASAP Cloud Native and ASAP Traditional Deployments".

High Availability in ASAP Using Order Balancer

ASAP now supports environments with multiple ASAP instances for high availability using the new Order Balancer component. With Order Balancer managing multiple independent ASAP instances, the load is distributed and balanced. You can also deploy new ASAP instances with new cartridges in the same environment without down time. With Order Balancer managing multiple ASAP instances, when an instance goes down, the incoming orders are routed to the other available running instances in the environment.

For more information about Order Balancer and how to set up Order Balancer, see *ASAP System Administrator's Guide*.

Order Balancer is also supported in ASAP cloud native deployments. For more information, see *ASAP Cloud Native Deployment Guide*.

View ASAP Metrics Using Prometheus and Grafana

You can configure Prometheus to view ASAP metrics. To view ASAP metrics using Prometheus, you configure a scrape job in Prometheus. ASAP metrics scraped by Prometheus can be made available for further processing and visualization using Grafana. ASAP exposes metrics via Servlet APIs. For details about configuring Prometheus for ASAP metrics and viewing metrics in Grafana, see "Managing ASAP Metrics" in *ASAP System Administrator's Guide*.

You can also use Prometheus and Grafana to view ASAP metrics in cloud native deployments. For more information, see *ASAP Cloud Native Deployment Guide*.

Support for Oracle Analytics Server for Generating Reports

ASAP 7.4 uses Oracle Analytics Server for generating reports. See *ASAP Compatibility Matrix* and *ASAP Order Control Application User's Guide* for more information.

Fixed Issues in ASAP 7.4

This release of ASAP contains enhancements and bug fixes.

Table 1-1 lists the fixed issues in ASAP 7.4. For fixed issues in ASAP 7.4.0.1 patch (34475066), see the corresponding patch Readme files available on the My Oracle Support website:

https://support.oracle.com/.

Table 1-1 Fixed Issues

Bug No.	Description
31857773	ASAP will ignore rollback parameters when the ASDL exit type is RETRY or RETRY_DIS.
31475849	The contents of the **CSDL History** tab in OCA can now be exported to a file.
20928109	Compound indexed parameters can now be used in ASDL conditional expressions.

Known Problems

This section lists the known issues in this release of ASAP.

Table 1-2 lists and describes the known problems in ASAP 7.4.

Table 1-2 Known Problems

Bug No.	Description
33928706	When importing the **ASAPWorkOrdersBoard.json** file into Grafana, it fails with an “invalid JSON file” error message. To work around this problem, remove the curly brace at the end of the JSON file.

Not Supported and Deprecated Features

The following features are not supported or have been deprecated in the ASAP 7.4 release.

Features Not Supported in Cloud Native Environment

SRT, custom SRPs, and custom NEPs are not supported in the ASAP cloud native environment. Also, distributed installations are not supported in the ASAP cloud native environment. All ASAP components, including WebLogic Server, must be installed in the same container.

Platform Support for IBM AIX

ASAP is no longer supported on the IBM AIX operating system. See *ASAP Compatibility Matrix* for details on supported operating systems.

C-SRP and State Table APIs

The C-SRP and State Table APIs are deprecated and may be removed in a future release. Oracle recommends using the JSRP and Java cartridge APIs instead.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Oracle Communications ASAP Release Notes, Release 7.4
F40781-04