

# Oracle Life Sciences Empirica

## Analytics Configuration Guide for Empirica Reporting



Release 2026.2.01  
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Oracle Life Sciences Empirica Analytics Configuration Guide for Empirica Reporting, Release 2026.2.01

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# 1

## Introduction

This document is intended to guide Oracle Analytics Server administrators in configuring Oracle Analytics with the Oracle Empirica Signal application.

# 2

## System requirements

- [About system requirements](#)  
To use Oracle Analytics to report on Oracle Empirica Signal, your system must meet the Oracle Analytics and Oracle Database instance requirements.
- [Database requirements](#)  
The Oracle Database instance used by the Oracle Empirica Signal application has the requirements described here.
- [Oracle Analytics requirements](#)  
For the installation of Oracle Analytics to work, you need to fulfill the following system requirements.
- [Oracle Empirica Signal and Oracle Empirica Topics requirements](#)  
The system requirements for Oracle Empirica Signal and Oracle Empirica Topics are listed here.

### About system requirements

To use Oracle Analytics to report on Oracle Empirica Signal, your system must meet the Oracle Analytics and Oracle Database instance requirements.

### Database requirements

The Oracle Database instance used by the Oracle Empirica Signal application has the requirements described here.

- Database connection information (TNS name, URL, port, service name).
- Username and password for the Oracle Empirica Signal database account and the system account.
- Name of the TOPIC\_WORKFLOW database account.

### Oracle Analytics requirements

For the installation of Oracle Analytics to work, you need to fulfill the following system requirements.

The system requirements for Oracle Analytics are listed here.

- Linux server (OEL9) name hosting Oracle Analytics.
- Linux non-privileged username used for the Oracle Analytics installation.
- URLs for the Oracle WebLogic Server (WLS 14) Enterprise Manager, Oracle Fusion Middleware, and Oracle Analytics.
- Signal-2026\_2\_01\_<x\_x\_xxx>-OBIEE.zip file from the Oracle Empirica Signal installation.
- webvdme.properties file from the Oracle Empirica Signal installation.

# Oracle Empirica Signal and Oracle Empirica Topics requirements

The system requirements for Oracle Empirica Signal and Oracle Empirica Topics are listed here.

- Oracle Empirica Signal release 2026.2.01 or later, installed and configured.

## Note

If the Oracle Empirica Signal application is installed and configured on a machine other than the machine where Oracle Analytics is being installed or configured, copy and keep the required `webvdm.properties` file in advance.

- Oracle Empirica Topics release 2026.2.01 or later, installed and configured.
- Name and ID of the topic workflow configuration in the Oracle Empirica Signal application.
- Server and file system access to the Oracle Empirica Signal application server.

# 3

## Prepare the Oracle Empirica Signal database server for Oracle Analytics

- [Create a new Oracle Analytics account on the Oracle Empirica Signal database server](#)  
On the Oracle Empirica Signal database server, you create the Oracle Analytics database user account and populate the account with views that point to data items in multiple accounts and the signal management and topic workflow configurations for reporting.

### Create a new Oracle Analytics account on the Oracle Empirica Signal database server

On the Oracle Empirica Signal database server, you create the Oracle Analytics database user account and populate the account with views that point to data items in multiple accounts and the signal management and topic workflow configurations for reporting.

- [Create the Oracle Analytics database account for Oracle Empirica Topics](#)  
To prepare the Oracle Empirica Signal database server for Oracle Analytics, create the Oracle Analytics database account for Oracle Empirica Topics.
- [Create the Oracle Analytics views for Oracle Empirica Topics](#)  
To prepare the Oracle Empirica Signal database server for Oracle Analytics, you must create the Oracle Analytics views for Oracle Empirica Topics.
- [Create the Oracle Analytics database account for Oracle Empirica Signal Review](#)  
To use the data model for Signal Review, create an Oracle Analytics database account for Oracle Empirica Signal.
- [Create the Oracle Analytics objects for Oracle Empirica Signal Review](#)  
To prepare the Oracle Empirica Signal database server for Oracle Analytics, you must create the Oracle Analytics objects for Oracle Empirica Signal Review.
- [Enable Empirica Signal Review Analytics reporting](#)  
Setting up the Empirica Signal Review Analytics database account does not automatically enable reporting for Signal Management configurations. Analytics must be enabled for each configuration individually.

### Create the Oracle Analytics database account for Oracle Empirica Topics

To prepare the Oracle Empirica Signal database server for Oracle Analytics, create the Oracle Analytics database account for Oracle Empirica Topics.

With this release, multiple Oracle Analytics accounts are supported. To streamline connections, a proxy account (OBI\_PROXY) will be created.

1. On the Oracle Empirica Signal application server, unzip the Database.zip file.
2. Using a text editor, open the create\_topics\_user\_obiee.sql file.



3. Modify the following properties as needed for your environment:

```
DEFINE MASTER_OBI_ACCOUNT = '<proxy analytics account>';  
DEFINE TOPIC_WORKFLOW = '<topic workflow account>';  
DEFINE SIGNAL = '<Signal account>';  
DEFINE TABLESPACE = '<tablespace>'
```

**Note**

The proxy analytics account, by default named OBI\_PROXY, is used to establish proxy connections for all analytics accounts (for example, OBIEE\_TOPIC\_WORKFLOW).

4. In a command prompt window, execute the create\_topics\_user\_obiee.sql script as the Oracle SYS user:

```
$ sqlplus sys@<database_server_TNS name> as sysdba  
@create_topics_user_obiee.sql
```

**Note**

The database may reside on a different server than the Oracle Empirica Signal server.

A password prompt appears.

5. Enter the password for the Oracle SYS account.
6. A second password prompt appears for the proxy analytics user. Enter the password.  
A list of topic workflow configuration names and IDs appears, and an ID prompt appears.
7. Enter the target topic workflow configuration ID.

The script creates the **OBIEE\_<topic workflow account>\_<topic workflow ID>** database user account.

A second password prompt appears.

8. Enter a password for the **OBIEE\_<topic workflow account>\_<topic workflow ID>** database user account.

**Note**

The password must not contain a dollar sign symbol (\$).

9. Record the passwords for later use.

After the script runs, the create\_topics\_user\_obiee.log file is created and can be checked for errors.

## Create the Oracle Analytics views for Oracle Empirica Topics

To prepare the Oracle Empirica Signal database server for Oracle Analytics, you must create the Oracle Analytics views for Oracle Empirica Topics.

1. On the Oracle Empirica Signal application server, locate the `populate_obiee_topics.sql` file in the contents extracted from the `Database.zip` file.
2. Open the `populate_obiee_topics.sql` file in a text editor.
3. Modify the following properties as needed for your environment:

```
DEFINE TOPIC_WORKFLOW = '<topic workflow account>';  
DEFINE SIGNAL = '<Signal account>'
```

4. In a command prompt window, execute the `populate_obiee_topics.sql` script as the database user you created in [Create the Oracle Analytics database account for Oracle Signal Topics](#), for example:

```
$ sqlplus OBIEE_<topic workflow account>_<topic workflow ID>@<TNS name for  
database connection> @populate_obiee_topics.sql
```

A password prompt appears.

5. Enter the password for the database user you created in [Create the Oracle Analytics database account for Oracle Signal Topics](#).

## Create the Oracle Analytics database account for Oracle Empirica Signal Review

To use the data model for Signal Review, create an Oracle Analytics database account for Oracle Empirica Signal.

On the Oracle Empirica Signal application server, locate the `create_sigmgmt_user_obiee.sql` file in the contents extracted from the `Database.zip` file.

1. Using a text editor, open the `create_sigmgmt_user_obiee.sql` file.
2. Modify the following properties as needed for your environment:

```
DEFINE SIGNAL = '<Signal account>';  
DEFINE TABLESPACE = '<tablespace>';  
DEFINE PROXY_USER = '<proxy analytics account>';
```

### Note

The proxy reporting account should be the same as what you specified in `create_topics_user_obiee.sql` for Oracle Empirica Topics in the previous section.

3. In a command prompt window, execute the `create_sigmt_user_obiee.sql` script as the Oracle SYS user:

```
$ sqlplus sys@<database_server_TNS name> as sysdba
@create_sigmt_user_obiee.sql
```

A password prompt appears.

4. Enter the password for the Oracle SYS account.

A second password prompt appears.

5. Enter a password for the **OBIEE\_SIGNAL\_MGT** database user account.

**Tip**

The password must not contain a dollar sign symbol (\$).

6. Record the passwords for later use.

After the script runs, the `create_sigmt_user_obiee.log` file is created and can be checked for errors.

## Create the Oracle Analytics objects for Oracle Empirica Signal Review

To prepare the Oracle Empirica Signal database server for Oracle Analytics, you must create the Oracle Analytics objects for Oracle Empirica Signal Review.

1. On the Oracle Empirica Signal application server, locate the `obi_create_sigmt_objects.sql` file in the contents extracted from the `Database.zip` file.
2. Open the `obi_create_sigmt_objects.sql` file in a text editor.
3. Modify the following properties as needed for your environment:

```
DEFINE SIGNAL = '<Signal account>';
```

4. In a command prompt window, execute the `obi_create_sigmt_objects.sql` script as the database user you created in [Create the Oracle Analytics database account for Oracle Empirica Signal Review](#) (OBIEE\_SIGNAL\_MGT), for example:

```
$ sqlplus OBIEE_SIGNAL_MGT@<TNS name for database connection>
@obi_create_sigmt_objects.sql
```

A password prompt appears.

5. Enter the password for the **OBIEE\_SIGNAL\_MGT** database account.

After the script runs, the `obi_create_sigmt_objects.log` file is created and can be checked for errors.

## Enable Empirica Signal Review Analytics reporting

Setting up the Empirica Signal Review Analytics database account does not automatically enable reporting for Signal Management configurations. Analytics must be enabled for each configuration individually.

1. In the left navigation pane, click the **Settings** icon ()
2. In the **Configure System** section, click **Manage Signal Configurations**.
3. Click the **Row Action menu** () for the signal configuration, and then click **Edit**.
4. On the Edit Signal Configuration page, locate the **Enable analytics** checkbox near the bottom of the page.
5. Select the checkbox, then click **Save**.
6. Reopen the configuration by selecting **Edit** from the Row Action menu and verify that the checkbox is checked and the status shows: **[Status: pending for Refresh]**.

At this point, the configuration is only registered for analytics. You must run the Refresh process to create the analytics objects.

7. Select the **Settings** icon ()
8. In the **Configure System** section, select **Manage Signal Configurations**.
9. Select the **Row Action menu** () for the signal configuration, and then select **Refresh**.
10. To submit the refresh, select **Submit**.
11. When the Refresh process completes, return to the Edit Signal Configuration page.
  - If successful, the checkbox remains selected and the label shows **Enable analytics** (with no status).
  - If unsuccessful, the status shows **[Status: failed in last refresh]** and the configuration will not appear in Oracle Analytics Server.

# 4

## Configure Oracle Analytics authentication

- [About configuring Oracle Analytics authentication](#)  
Before you start Oracle Analytics configuration, gather the following information.
- [Copy Oracle Empirica Signal authenticator files to the Oracle Analytics Linux server](#)  
To support different security environments, configuration variables may be initialized (hard-coded) into the `initConfig.sh` script file, or prompted for (interactively) in the `configObiee.sh` script file.
- [Configure Oracle Analytics](#)  
The Oracle Analytics configuration script stops and re-starts the Oracle Analytics server several times during configuration.

### About configuring Oracle Analytics authentication

Before you start Oracle Analytics configuration, gather the following information.

- Oracle Database password for the Oracle Empirica Signal schema.
- Password for the `rpd` files.
- Password for the `rpd` (proxy) connection database user.

There are three sets of RPD and catalog files:

- Topics
- Topics for GVP Module IX
- Signal Review

Because OAS supports only one RPD at a time, you must decide whether to merge.

#### Option 1: Do not merge

You can install only **one** model:

- Topics
- Topics for GVP Module IX
- Signal Review

#### Option 2: Merge

You can install **two** models in the RPD:

- Signal Review + Topics (default)
- Signal Review + Topics for GVP Module IX

During Oracle Analytics installation, replace each variable that you encounter in the instructions and record the new value as follows:

| Name              | Value               |
|-------------------|---------------------|
| Linux server name | <Linux server name> |

| Name                          | Value                                                                                                                                                                                 |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Linux non-privileged username | <Linux non-privileged username>                                                                                                                                                       |
| MIDDLEWARE_HOME               | Full path to the Oracle Fusion Middleware Home, similar to <code>.../u01/app/oracle/Middleware/Oracle_Home</code>                                                                     |
| ADMIN_USER                    | Oracle WebLogic Server administrator user name                                                                                                                                        |
| ADMIN_PASS                    | Oracle WebLogic Server administrator password                                                                                                                                         |
| DB_USER                       | Oracle Database user for the Oracle Empirica Signal schema                                                                                                                            |
| DB_PASS                       | Oracle Database user password for the Oracle Empirica Signal schema                                                                                                                   |
| SIGNAL_DB_CONNECT             | Oracle Empirica Signal database TNS-style connection string, similar to <code>jdbc:oracle:thin:@//&lt;DB host URL&gt;:&lt;DB port&gt;/&lt;DB service name&gt;</code>                  |
| RPD_PROXY_USER                | User name for the PROXY connection database for RPD                                                                                                                                   |
| RPD_PROXY_PASS                | Password for the RPD connection database user                                                                                                                                         |
| RPD_CONN_DATASOURCE           | TNS-style connection string for the RPD, similar to:<br>(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<DB host URL>)(PORT=<DB port>))<br>(CONNECT_DATA=(SERVICE_NAME=<DB service name>))) |
| DOMAIN_NAME                   | Oracle Analytics domain name, such as <code>bi</code>                                                                                                                                 |
| RPD_SMC_USER                  | Oracle Database user for Signal data model schema                                                                                                                                     |
| RPD_TWC_USER                  | Oracle Database user for the Topics workflow schema                                                                                                                                   |
| ADMIN_PORT                    | Oracle Analytics admin port, such as 9500                                                                                                                                             |
| BI_PORT                       | Oracle Analytics port, such as 9502                                                                                                                                                   |
| MERGE                         | TRUE to merge the Topics and Signal Review RPDs                                                                                                                                       |
| MODEL_NAME                    | If MERGE_RPD="TRUE", MODEL_NAME options are: "Topics" or "Topics_gvp".<br>If MERGE_RPD="FALSE", MODEL_NAME options are: "Topics", "Topics_gvp" or "SignalReview".                     |
| BI_MEMORY_VALUE               | BI server heap size. The default value is the minimum recommended size.                                                                                                               |

**Note**

Replace any tags of the <replaceDir> type with corresponding directory paths.

To access Oracle Empirica Topics reports in Oracle Analytics using your Oracle Empirica Signal password, you must install and configure the authentication plug-in.

## Copy Oracle Empirica Signal authenticator files to the Oracle Analytics Linux server

To support different security environments, configuration variables may be initialized (hard-coded) into the `initConfig.sh` script file, or prompted for (interactively) in the `configObiee.sh` script file.

Any combination of hard-coding and interactive prompting is supported except \$. For example, leaving password values blank in `initConfig.sh` would result in interactive prompts for the passwords in `configObiee.sh`.

1. Create temporary working folders `<tempFolder>` and `<linuxObieeDir>` on the Linux machine hosting Oracle Analytics.
2. Log into the Linux server using a privileged account and switch to a non-privileged account using the following `sudo` command:

```
sudo su - <non-privileged account>
```

3. Unzip the `Signal-2026_2_01_<x>_<xxx>-OBIEE.zip` into a temporary working folder `<tempFolder>`.

The OBIEE directory is created in the `<tempFolder>` directory.

4. Using your privileged account, issue the following command:  

```
sudo chmod -R 700 <tempFolder>
```
5. From the Oracle Empirica Signal installation, copy the `webvdme.properties` file into the `<tempFolder>/OBIEE/empiricaprovider` directory.
6. If necessary, explicitly provide the `webvdme.properties` file the permission to log in directly to the non-privileged account.

### Note

The SSO plugin settings in the `webvdme.properties` file must match the SSO settings used by Oracle Analytics. For example, if SSO is not enabled on Oracle Analytics, comment out the "sso" plugin lines in the `webvdme.properties` file.

7. If the Oracle Analytics Admin port is different than the default value of 9500, edit the `<tempFolder>/OBIEE/empiricaprovider/obiee_auth.properties` file, changing "port=9500" to "port=<AdminPort>", where "<AdminPort>" is the Oracle Analytics Admin port.
8. Edit the `<tempFolder>/OBIEE/config/initConfig.sh` file. Set each variable in the `initialize configuration variables` section and record the new value. For more information, see [About configuring Oracle Analytics authentication](#). If desired, leave sensitive configuration variables such as passwords blank. Blank values will be prompted for in the `configObiee.sh` script.
9. Copy the `<tempFolder>/OBIEE` directory to the `<linuxObieeDir>` working directory on the Linux server. Record the full path to the `<linuxObieeDir>` directory.
10. Using your privileged account, issue the following command:  

```
sudo chmod -R 700 <linuxObieeDir>
```

## Configure Oracle Analytics

The Oracle Analytics configuration script stops and re-starts the Oracle Analytics server several times during configuration.

Each restart takes over 10 minutes.

After the installation completes, the following message appears:

```
*****  
* OAS configuration complete *  
*****
```

1. Log into the Linux server hosting Oracle Analytics using the non-privileged account.
2. Navigate to the following configuration script directory:  
`cd linuxObieeDir/config`
3. Execute the following script:  
`./configObiee.sh`



# 5

## Configure the Oracle Empirica Signal application

- [About configuring the Oracle Empirica Signal application](#)  
To configure the Oracle Empirica Signal application, you must modify the `webvdme.properties` file, enable the Oracle Analytics site option, assign user permissions, and enable Oracle Analytics for signal management configurations.
- [Modify the `webvdme.properties` file](#)  
Follow these steps to modify the `webvdme.properties` file.
- [Enable the Oracle Analytics site option](#)  
Follow these steps to enable the Oracle Analytics site option.
- [Assign user permissions for Oracle Analytics](#)  
You must assign the appropriate Oracle Analytics permissions to users who need access to Oracle Empirica reports.
- [Enable Oracle Analytics for signal management configurations](#)  
Follow these steps to enable Oracle Analytics for signal management configurations.

### About configuring the Oracle Empirica Signal application

To configure the Oracle Empirica Signal application, you must modify the `webvdme.properties` file, enable the Oracle Analytics site option, assign user permissions, and enable Oracle Analytics for signal management configurations.

### Modify the `webvdme.properties` file

Follow these steps to modify the `webvdme.properties` file.

1. Log into the Oracle Empirica Signal application server.
2. Navigate to the `/u01/stage/Signal_Install/Signal/WEB-INF/classes` directory.
3. Using a text editor, open the `webvdme.properties` file.
4. Add the following line, replacing `<server>` and `<port>` with the appropriate values for your Oracle Analytics server:

```
reportingURL=http://<server>:<port>/analytics
```

#### Note

The port number can change depending on whether SSO is being used.

5. Stop, update, and restart the Oracle Empirica Signal WebLogic application server using the Oracle WebLogic Server console.

## Enable the Oracle Analytics site option

Follow these steps to enable the Oracle Analytics site option.

1. Log into the Oracle Empirica Signal application as an administrator.
2. In the left navigation pane, click the **Settings** icon ()
3. From the Administrator System section, select **Set Site Options**.
4. Select the **Enable Oracle Analytics Reporting** check box.
5. Click **Save**.
6. Log out of the Oracle Empirica Signal application.

## Assign user permissions for Oracle Analytics

You must assign the appropriate Oracle Analytics permissions to users who need access to Oracle Empirica reports.

The permissions provided in the Oracle Empirica Signal application correspond to the associated roles (BI Consumer, BI Author, BI Administrator) in Oracle Analytics. You should assign the permissions to Oracle Empirica Signal users according to their roles in Oracle Analytics.

Users must have at least the BI Consumer permission to view Oracle Empirica Signal Management or Oracle Empirica Topics reports in Oracle Analytics.

1. Log into the Oracle Empirica Signal application as an administrator.
2. In the left navigation pane, click the **Settings** icon ()
3. In the **Manage Users** section, click **Edit Roles**.
4. For the user role you want to edit, click **Edit**.
5. On the Edit Roles page, select the check boxes for the appropriate BI permissions.
6. Click **Save**.

If you modify permissions for an existing user role, then users currently logged in and associated with the user role are not affected by the changes during their current session. The changes take effect the next time they log into the application.

## Enable Oracle Analytics for signal management configurations

Follow these steps to enable Oracle Analytics for signal management configurations.

You must already have Oracle Empirica Signal, Oracle Analytics configured, and at least BI Consumer permission assigned.

1. Log into the Oracle Empirica Signal application as an administrator.
2. In the left navigation pane, click the **Settings** icon ()
3. In the Configure System section, select **Manage Signal Configurations**.

4. For each Signal Configuration that you want to be available in Oracle Analytics, , click the **Row Action menu** (  ) for the signal configuration, and then click **Edit**.
5. At the end of the page, select the **Enable analytics** checkbox.
6. Click **Save**.
7. To run a Refresh, navigate to **Settings**, select **Signal Management Configurations**, and select a configuration you want to work with.
8. From the **Row Action menu** (  ) select **Refresh**.
9. To submit the Refresh process, click **Submit**.
10. When the Refresh process completes, return to the Edit Signal Configuration page, and check the status:

| Status                                            | Description                                                                                                                                 |
|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Enable analytics                                  | If successful, the checkbox remains selected and the label shows <b>Enable analytics</b> (with no status).                                  |
| Enable analytics [Status: failed in last refresh] | If unsuccessful, the status shows <b>[Status: failed in last refresh]</b> and the configuration will not appear in Oracle Analytics Server. |
| Enable analytics [Pending for refresh]            | If the action is in progress but not yet completed, the status shows <b>[Pending for refresh]</b> .                                         |

11. Log out of the Oracle Empirica Signal application.
12. Log into Oracle Analytics for Empirica Reporting and view the newly added configuration in the **Shared Analysis Criteria** filter drop-down and signal management configuration related data in reports.

# 6

## Start and stop Oracle WebLogic Server for Oracle Analytics

- [About starting and stopping Oracle WebLogic Server for Oracle Analytics](#)  
Starting and stopping Oracle WebLogic Server for Oracle Analytics is optional when configuring Oracle Analytics.
- [Confirm installation](#)  
Follow these steps to confirm the installation.
- [Start and stop Oracle WebLogic Server for Oracle Analytics](#)  
Because the start and stop scripts run in the foreground, you do not need to use **nohup** or **&**. The start and stop scripts must run to completion before you can continue.

### About starting and stopping Oracle WebLogic Server for Oracle Analytics

Starting and stopping Oracle WebLogic Server for Oracle Analytics is optional when configuring Oracle Analytics.

Based on your system configuration, some paths and locations from your environment may differ from the values in the examples.

### Confirm installation

Follow these steps to confirm the installation.

1. Using an Oracle Empirica Signal username that has a BI or superuser privilege, log into Oracle Analytics using the following URL:  
`http://<OAS server name>:<OA_port>/analytics`  
For example:  
`http://<servername>:9502/analytics`  
The Oracle Analytics screen appears.
2. Click the **Catalog** link at the top.
3. In the Folders section on the left, expand **Shared Folders**.
4. If you configured Topics, click the **Topics** folder. Otherwise, continue to Step 7.
5. Under Analysis Reports, click the **Expand** link, then open each report, examine it, and click **OK**.

**Note**

Depending on the topic workflow configuration, some reports may not contain data. For a report with no data, the following message is displayed: *No Results - the specified criteria didn't result in any data.*

6. Repeat Step 5 for the My Dashboard folder.
7. If you configured Signal Review, click the **Signal Review** folder. Otherwise, continue to Step 10.
8. Under Analysis Reports, click the **Expand** link, then open each report, examine it, and click **OK**.

**Note**

Depending on the topic workflow configuration, some reports may not contain data. For a report with no data, the following message is displayed: *No Results - the specified criteria didn't result in any data.*

9. Repeat Step 8 for the My Dashboard folder.
10. Click the **Home** link at the top of the screen.  
The Topics reports should appear in the Recent section.
11. In the browser address bar, type:  
`http://<OAS server name>:<OA_port>/xmlpserver`  
For example:  
`http://<servername>:9502/xmlpserver`  
The Oracle Analytics screen appears.
12. Verify that on the left the following three links appear under **Create...**:
  - Report
  - Report Job
  - Data Model

13. In the address bar, type:  
`http://<OAS server name>:<OA_port>/dv`  
For example:  
`http://<servername>:9502/dv`

A page appears displaying a search box with text *Search Everything*. Below it, there are five tabs: Projects and Reports, Data, Recent Data Sets, Favorite Projects, and Machine Learning.

14. Log out of Oracle Analytics.

# Start and stop Oracle WebLogic Server for Oracle Analytics

Because the start and stop scripts run in the foreground, you do not need to use **nohup** or **&**. The start and stop scripts must run to completion before you can continue.

## Note

Starting and then stopping Oracle WebLogic Server/Oracle Analytics may take a few minutes.

1. Log into the Linux server hosting Oracle Analytics using the non-privileged user name.
2. To start Oracle Analytics: `<MIDDLEWARE_HOME>/user_projects/domains/bi/bitools/bin/start.sh`
3. To stop Oracle Analytics: `<MIDDLEWARE_HOME>/user_projects/domains/bi/bitools/bin/stop.sh`

# Upgrade OBIEE/OAS for Oracle Empirica Topics 2026.2.01

- [Update an existing Oracle Business Intelligence account to Oracle Analytics](#)  
If you are upgrading from an existing Oracle Business Intelligence account for Oracle Empirica Topics, you need to update the account.

## Update an existing Oracle Business Intelligence account to Oracle Analytics

If you are upgrading from an existing Oracle Business Intelligence account for Oracle Empirica Topics, you need to update the account.

### Before you begin

Evaluate which scenario matches your current setup:

- **Simple or no customizations:** You use only the default reports, or you have customized reports but have not modified the RPD.
- **Advanced customizations:** You have modified the RPD and reports, and possibly the database schema.

### Simple or no customizations

This chapter applies only to simple or no customizations. If your environment includes customizations in the data model or schema, contact Oracle Consulting for assistance in reapplying them to the default model.

- [Back up existing OBIEE topics reports](#)  
If you are upgrading from an existing Oracle Business Intelligence account prior to Oracle Empirica Topics 2026.2.01 and have existing custom reports to preserve, back up your reports using the following procedure.
- [Update the Topic workflow configuration for GVP Module IX](#)  
Ensure the Topic Workflow configuration is updated to meet requirements before proceeding with the OAS database update.
- [Update the Oracle Analytics database account for Oracle Empirica Topics](#)  
You can upgrade Oracle Empirica Topics from version 2025.4.x or a version earlier than 2025.4.01.
- [Recreate additional reporting Topic Workflow configurations](#)  
If your analytics environment contains multiple Topic Workflow configurations, you must recreate the additional configurations in both the data model (RPD) and the catalog.

## Back up existing OBIEE topics reports

If you are upgrading from an existing Oracle Business Intelligence account prior to Oracle Empirica Topics 2026.2.01 and have existing custom reports to preserve, back up your reports using the following procedure.

### Note

The following steps are only necessary if you are upgrading from an existing Oracle Business Intelligence instance and have custom reports that you need to preserve.

1. Using an Oracle Empirica Signal username that has a BI or superuser privilege, log into Oracle Business Intelligence using the following URL:  
  
http://<OBIEEserver name>:<OBIEE\_port>/analytics  
For example: http://<servername>:9502/analytics  
  
The OBIEE screen appears.
2. Click the **Catalog** link at the top.
3. In the Folders section on the left, expand **Shared Folders**.
4. Click the **Topics** folder.
5. In the bottom left Tasks section, click **Rename**.
6. Type Topics\_legacy in the Name field and click **OK**.
7. In the bottom left Tasks panel, click **Archive**.
8. Leave the options unchecked in the window then click **OK**.  
  
The file named Topics\_legacy.catalog is downloaded.

## Update the Topic workflow configuration for GVP Module IX

Ensure the Topic Workflow configuration is updated to meet requirements before proceeding with the OAS database update.

If you have configured Topics GVP Module IX and you are migrating from a version before 2025.4.01, you must update the Topic Workflow configuration used by the data model to add the **Method of signal evaluation** field before proceeding to the next task, [Update the Oracle Analytics database account for Oracle Empirica Topics](#).

1. Log in to the Oracle Empirica Signal application as a user with **Manage Topic Workflow Configurations** permission.
2. In the left navigation pane, click the **Settings** icon ()
3. From the Configure System section, select **Manage Topic Workflow Configurations**.
4. Select the **Row Action menu** () of the topic workflow configuration and select **Edit**.
5. On the Edit Topic Workflow Configuration page, select the **Fields** section, then select the **Add Field** link.
6. Enter the following details in the fields:
  - Column name: **SIGNAL\_EVAL\_METHOD**.



- Display name: **Method of signal evaluation.**
  - Format: **String.**
  - Length: **1000.**
  - Type: **Single Value.**
  - Context: **Topics.**
7. Select **Save.**
  8. On the Manage Fields page, select the **Manage Accessibility** link and the **Topic Fields by State** menu option.
  9. Set accessibility for **Method of signal evaluation:**
    - a. **Editable:** Validation, Assessment, Communication / Confirmation, Analysis and prioritization, Recommendation for action.
    - b. **Visible:** Risk mitigations implemented, Refuted signal.
  10. Select **Save.**

## Update the Oracle Analytics database account for Oracle Empirica Topics

You can upgrade Oracle Empirica Topics from version 2025.4.x or a version earlier than 2025.4.01.

### Upgrade from a version earlier than 2025.4.01

If your environment does not contain any customizations to the Oracle BI Repository (RPD) or the database schema, Oracle recommends dropping the existing OBIEE\_TOPIC\_WORKFLOW account and recreating it by following the instructions in Chapter 3 [Prepare the Oracle Empirica Signal database server for Oracle Analytics](#).

If your environment includes customizations in the data model or schema, please contact Oracle Consulting for assistance in reapplying them to the default model.

### Upgrade from 2025.4.x

1. On the Oracle Empirica Signal application server, unzip the Database .zip file.
2. Execute this step only if you have enabled Signal Review reporting and you are upgrading from 2025.4.01:
  - a. Open update\_obiee\_2025.4.01\_to\_2025.4.02.sql in a text editor and update the SIGNAL variable if your Signal master database account uses a name other than the default.
  - b. Execute update\_obiee\_2025.4.01\_to\_2025.4.02.sql in SQL\*Plus while connected as the Signal Review reporting user (OBIEE\_SIGNAL\_MGT). You can connect using the proxy account. For example:  

```
sqlplus proxy_user[OBIEE_SIGNAL_MGT]@<database conn>
@2025.4.01_to_2025.4.02.sql
```
3. Using a text editor, open the update\_obiee\_2025.4\_to\_2026.sql file and modify the following properties as needed for your environment:

```
DEFINE SIGNAL_ACCT='<Signal account>'; --DEFAULT: WEBVDME
DEFINE TOPIC_WORKFLOW_ACCT='<topic workflow account>'; --DEFAULT:
TOPIC_WORKFLOW
DEFINE SIGNAL_OBIEE_USER='OBIEE_SIGNAL_MGT';
```

```
DEFINE TOPIC_OBIEE_USER='OBIEE_TOPIC_WORKFLOW_0';  
DEFINE TOPIC_WORKFLOW_CONFIG_ID='0';
```

#### Note

TOPIC\_OBIEE\_USER specifies the reporting account associated with a Topic Workflow configuration.

- If your environment contains multiple Topic Workflow configurations and the reporting accounts follow the naming convention OBIEE\_TOPIC\_WORKFLOW\_<config\_id>, set UPDATE\_ALL\_TOPIC\_SCHEMAS='TRUE'. The script will automatically upgrade all matching reporting accounts.
  - If the reporting accounts do not follow this naming convention, leave UPDATE\_ALL\_TOPIC\_SCHEMAS='FALSE' (the default). Then run update\_obiee\_2025.4\_to\_2026.sql once for each reporting account, updating the values of TOPIC\_OBIEE\_USER and TOPIC\_WORKFLOW\_CONFIG\_ID for each execution.
4. In a command prompt window, execute the create\_topics\_user\_obiee.sql script as the Oracle SYS user:

```
$ sqlplus sys@<database_server_TNS name> as sysdba  
@update_obiee_2025.4_to_2026.sql
```

A password prompt appears.

5. Enter the password for the Oracle SYS account.
6. After the script runs, the update\_obiee\_2025.4\_to\_2026.log file is created and can be checked for errors.

## Recreate additional reporting Topic Workflow configurations

If your analytics environment contains multiple Topic Workflow configurations, you must recreate the additional configurations in both the data model (RPD) and the catalog.

For example, suppose your current data model contains three subject areas:

- **Topic area** (default configuration)
- **Topic area\_4** (Topic Workflow Configuration ID 4)
- **Topic area\_6** (Topic Workflow Configuration ID 6)

The initial configuration performed by configObiee.sh creates only the default **Topic area** configuration.

To recreate the additional Topic Workflow configurations (IDs 4 and 6), run addTwc.sh once for each additional configuration. For detailed instructions, see [Add an Additional Topic Workflow configuration](#).

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## Restore legacy Oracle Analytics custom reports for use with OAS

The following procedures are only required if you had custom reports in Oracle Analytics and performed a backup of the report catalog as described in [Back up existing OBIEE topics reports](#).

- [Upload the OBIEE report catalog](#)  
If you are upgrading from an existing Oracle Business Intelligence account and backed up your existing custom reports, upload the report catalog archive.
- [Recreate custom reports](#)  
Recreate the custom reports from the legacy OBIEE catalog so that you can run them in Oracle Analytics Server.

### Upload the OBIEE report catalog

If you are upgrading from an existing Oracle Business Intelligence account and backed up your existing custom reports, upload the report catalog archive.

#### ① Note

The following steps are only needed if you had custom reports in OBIEE and performed a backup of the report catalog as described in [Back up existing OBIEE topics reports](#).

1. Locate the backup OBIEE catalog file created in [Back up existing OBIEE topics reports](#), for example: `Topics_legacy.catalog`.
2. Using an Oracle Empirica Signal username that has a BI or superuser privilege, log into Oracle Analytics Server using the following URL:  
`http://<OASserver name>:<OA_port>/analytics`  
For example: `http://<servername>:9502/analytics`  
The Oracle Analytics screen appears.
3. Click the **Catalog** link at the top.
4. In the Folders section on the left, expand **SharedFolders**.
5. In the Tasks section on the bottom left, click **Unarchive**.
6. In the Unarchive window, click **Browse**.
7. Locate the `Topics_legacy.catalog` file and click **OK**.

A new folder named `Topics_legacy` appears under **SharedFolders**.

The list of old reports appears under `Topics_legacy/Analysis Reports`. The reports cannot be run in OAS until you recreate them as described at [Recreate custom reports](#).

To view the definition of a report, click **Edit** under a report name and then click the **Criteria** tab.

## Recreate custom reports

Recreate the custom reports from the legacy OBIEE catalog so that you can run them in Oracle Analytics Server.

Once you have [uploaded the OBIEE catalog](#), you have two options for recreating your reports:

- You can rebuild the custom reports from scratch based on the legacy report definitions, which you can access in the Topics/Analysis Reports folder.
- You can use the procedure below to take advantage of the XML definitions.

To recreate custom reports using the XML definitions:

1. Expand **Topics\_legacy** and click **Analysis Reports**.
2. In the right panel, select a custom report that you want to recreate and click **Edit**. If an error appears, ignore it.
3. Click the **Advanced** tab on the top.
4. Copy the XML from the Analysis XML field as follows:
  - a. Click in the **Analysis XML** field.
  - b. Press **Ctrl+A** to select the entire XML.
  - c. Press **Ctrl+C** to copy it.
5. Paste the clipboard text into an XML editor and save it as a file.
6. Locate the following item names in the XML and modify as described below:
  - Replace Subject Area name with Topic area.
  - Replace the old table name with the new table name if they are different.
  - The column names between the old and new data models are mostly comparable. If they are different, update the column name accordingly.

Below is an example of table and columns that should be updated.

### OBIEE report definition:

```
<sawx:expr xsi:type="sawx:sqlExpression">"ActionStatesTimeline_Fact"."Action Id"</sawx:expr>
```

### OAS report definition:

```
<sawx:expr xsi:type="sawx:sqlExpression">"Action State Timeline"."Action ID"</sawx:expr>
```

7. Press **Ctrl+A** to select the entire modified XML, then press **Ctrl+C** to copy it.
8. Click the **Catalog** link on the top.
9. In the Folders section on the left, expand **Shared Folders**.
10. Click the **Topics** folder and then **Analysis Reports**.
11. Click the **Create** link on the top and then select **Analysis**.
12. Click **Topic area** in the Select Subject Area window.
13. Click the **Advanced** tab on the top.

14. In the Analysis XML field, press **Ctrl+A** to select the entire XML, then press **Ctrl+V** to paste the XML you copied in Step 7 above.
15. Click **Apply XML**.  
If an error appears:
  - a. Locate the item in question and update the XML accordingly.
  - b. Click **Apply XML** again.  
It might require several iterations of steps a and b above to correct the XML.
16. Once the XML is successfully applied, click the **Results** link on the top. Verify the results are correct.
17. Click the **Save** icon in the right upper corner.

# A

## Appendix: Configure OAS to work with GVP Module IX data model

This appendix is for those with the generic data model (Topics.rpd) installed who wish to switch to the GVP Module IX data model. The necessary script for this feature is available only with Oracle Empirica Signal 9.2.0.2 or later. For versions prior to 9.2.0.2, please contact Oracle Support.

- [Select the target topic workflow configuration](#)  
Set the target topic workflow configuration to a GVP Module IX configuration.
- [Upload GVP Module IX data model and catalog](#)  
To upload the GVP Module IX data model, set the script parameters and execute the update script.

### Select the target topic workflow configuration

Set the target topic workflow configuration to a GVP Module IX configuration.

Follow the steps at [Create a new Oracle Analytics account on the Oracle Empirica Signal database server](#) in Chapter 3 to set the target topic workflow configuration to a GVP Module IX configuration.

### Upload GVP Module IX data model and catalog

To upload the GVP Module IX data model, set the script parameters and execute the update script.

- [Set script parameters](#)  
Prepare to execute the update script by setting appropriate values for script parameters.
- [Execute the update script](#)  
Run the script to configure OAS to work with GVP Module IX.

### Set script parameters

Prepare to execute the update script by setting appropriate values for script parameters.

1. Navigate to the <TOPICS\_OBIEE\_INSTALL\_DIR> directory.
2. Locate the updateRpd.sh script and open the file for editing.
3. Verify the values for the following parameters in the script. If necessary, make changes to match the values below and save the file.

| Name        | Value                                                                                                                              |
|-------------|------------------------------------------------------------------------------------------------------------------------------------|
| DOMAIN_HOME | Full path to the Oracle Fusion Middleware Home, similar to <code>.../u01/app/oracle/Middleware/Oracle_Home/user_projects/bi</code> |

| Name           | Value                                                      |
|----------------|------------------------------------------------------------|
| ADMIN_USER     | Oracle WebLogic Server administrator user name             |
| DB_USER        | Oracle Database user for the Oracle Empirica Signal schema |
| RPD_CONN_USER  | User name for the RPD connection database user             |
| RPD_PROXY_USER | Database proxy account for RPD_CONN_USER connection.       |

**Note**

This parameter must be added to the script.

|                     |                                                                                                                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPD_CONN_DATASOURCE | TNS-style connection string for the RPD, similar to:<br>(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)<br>(HOST=<DB host URL>) (PORT=<DB port>))<br>(CONNECT_DATA=(SERVICE_NAME=<DBS ervicename>))) |
| BI_PORT             | Oracle Analytics admin port, such as 9502                                                                                                                                                 |

4. Search and replace the following line:

Original:

```
${JAVA_HOME}/bin/java -jar
${COMMON_COMPONENTS_HOME}/modules/thirdparty/jython-standalone-
2.7.1.0.1.jar ${CONFIG_HOME}/editListConn.py
"${CONFIG_HOME}/listConn.json" "${CONFIG_HOME}/updateConn.json"
"${RPD_CONN_USER}" "${RPD_CONN_PASS}" "${RPD_CONN_DATASOURCE}" >>
updateRpd.log
```

Replace with:

```
${JAVA_HOME}/bin/java -jar
${COMMON_COMPONENTS_HOME}/modules/thirdparty/jython-standalone-
2.7.*.jar ${CONFIG_HOME}/editListConn.py
"${CONFIG_HOME}/listConn.json" "${CONFIG_HOME}/updateConn.json"
"RPD_PROXY_USER" "${RPD_PROXY_USER}" "${RPD_CONN_PASS}"
"OBIEE_SIGNAL_MGT" "${RPD_CONN_USER}" "${RPD_CONN_DATASOURCE}" >>
updateRpd.log
```

5. Save the file.

## Execute the update script

Run the script to configure OAS to work with GVP Module IX.

### ① Note

Before proceeding, gather the following information:

- Oracle Database password for the Oracle Empirica Signal schema.
- Password for the Topics\_gvp.rpd file.
- Password for the RPD connection database user.

1. Log into the Linux server hosting Oracle Analytics using the non-privileged account.
2. Navigate to the <TOPICS\_OBIEE\_INSTALL\_DIR>/config working directory:

```
cd <TOPICS_OBIEE_INSTALL_DIR>/config
```

3. Issue the following command:

```
chmod +x updateRpd.sh editListConn.py
```

4. Execute the following script:

```
./updateRpd.sh
```

5. Enter the passwords (see note above) when prompted.

After the update completes, the following message appears:

```
OAS update complete
```



# B

## Appendix: Add an additional Topic Workflow Configuration

This release supports multiple Topic Workflow Configurations (TWC). After the initial installation, only one Topics model is available—either the default Topics or the GVP Module IX Topics.

- [Add multiple Topic Workflow configurations](#)  
You have the option to report on more than one topic workflow configuration.

### Add multiple Topic Workflow configurations

You have the option to report on more than one topic workflow configuration.

To add additional Topic Workflow configurations to the RPD and catalog, perform the following steps:

1. Note the configuration ID of the Topic Workflow configuration.
2. Create a new database account by following the steps in Chapter 3: Prepare the Oracle Empirica Signal Database Server for Oracle Analytics.
3. In `<TOPICS_OBIEE_INSTALL_DIR>/config/Multi_TWC_Support`, locate `addTwc.sh`.
4. Open `addTwc.sh` using a text editor, set the values for the following parameters:

| Name            | Value                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CONFIG_ID       | Topic workflow configuration ID.                                                                                                                         |
| RPD_TYPE        | GVP for GVP Module IX or SAMPLE for the default.                                                                                                         |
| JAVA_HOME       | Full path to the JDK similar to <code>/u01/app/oracle/product/java/jdk</code> .                                                                          |
| MIDDLEWARE_HOME | Full path to the Oracle Fusion Middleware Home, similar to <code>.../u01/app/oracle/product/fmw/14.2.1.0</code> .                                        |
| HOSTNAME        | Reporting server hostname.                                                                                                                               |
| ADMIN_USER      | Oracle WebLogic Server administrator user name.                                                                                                          |
| ADMIN_PASS      | Oracle WebLogic Server administrator user password.                                                                                                      |
| RPD_PASS        | Password for the RPD.                                                                                                                                    |
| RPD_CONN_USER   | User name for the RPD connection database user. If using the proxy user, the format should be <code>&lt;proxy user&gt;[OBIEE_TOPIC_WORKFLOW_xx]</code> . |
| RPD_CONN_PASS   | Password for the RPD connection. If using the proxy user, set it to the proxy user's password.                                                           |

| Name                | Value                                                                                                                                                                                        |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RPD_CONN_DATASOURCE | TNS-style connection string for the RPD, similar to:<br><br>(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)<br>(HOST=<DB host URL>) (PORT=<DB port>))<br>(CONNECT_DATA=(SERVICE_NAME=<DBservicename>))) |
| DOMAIN_NAME         | Oracle Analytics domain name, such as bi.                                                                                                                                                    |
| BI_PORT             | Oracle Analytics admin port, such as 9502.                                                                                                                                                   |

5. Save `addTwc.sh`.
6. Log into the Linux server hosting Oracle Analytics using the non-privileged account.
7. Navigate to `<TOPICS_OBIEE_INSTALL_DIR>/config/Multi_TWC_Supported`  
`<TOPICS_OBIEE_INSTALL_DIR>/config/Multi_TWC_Support`.
8. Issue the following command:  
  
`chmod +x addTwc.sh`
9. Execute the following script:  
  
`./addTwc.sh`
10. After the update completes, the following message appears: *Completed updating the RPD*.
11. Using an Oracle Empirica Signal username that has a BI or superuser privilege, log into Oracle Analytics Server using the following URL: `http://<OASserver name>:<OA_port>/analytics`.  
  
For example: `http://<servername>:9502/analytics`.  
  
The Oracle Analytics screen appears.
12. Click the **Catalog** link at the top.
13. In the Folders section on the left, expand **Shared Folders**.
14. Verify that a folder named **Topics\_<config ID>** (e.g., `Topics_60`) has been created.
15. Click **Create link** at the top, and then click **Analysis**.
16. Verify that a new subject area named **Topic area <config ID>** appears.

## C

# Appendix: Change log

| Date          | Revised part number | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| July 2026     | G54222-01           | Updated existing topics and added new topics for the 2026.2.01 release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| October 2025  | G38261-02           | Updated some metadata elements that don't impact the information in this publication.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| October 2025  | G38261-01           | <p>Modified the following topics for the 2025.4.01 release:</p> <ul style="list-style-type: none"> <li>• <a href="#">About configuring the Oracle Empirica Signal application</a></li> <li>• <a href="#">Back up existing OBIEE topics reports</a></li> <li>• <a href="#">Confirm installation</a></li> <li>• <a href="#">Enable Oracle Analytics for signal management configurations</a></li> <li>• <a href="#">Update the Oracle Analytics Server</a></li> </ul> <p>Added new content:</p> <ul style="list-style-type: none"> <li>• <a href="#">Add multiple Topic Workflow configurations</a></li> <li>• <a href="#">Update the Topic workflow configuration for GVP Module IX</a></li> </ul> |
| July 2025     | G31196-02           | Updated some backend structural elements that don't impact the information in this publication.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| November 2024 | F87273-01           | <p>For the 9.2.3 release:</p> <ul style="list-style-type: none"> <li>• Updated version numbers and file paths.</li> <li>• Removed details regarding OAS 6.4, which is no longer supported.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| August 2023   | F82931-01           | <p>For 9.2.2.1 release:</p> <ul style="list-style-type: none"> <li>• Rebranded product and book title.</li> <li>• Updated the Cloud Support link in the Preface.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| April 2023    | F78226-01           | Updated for 9.2.2 release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| August 2022   | F34880-05           | Updated for OAS 6.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| July 2022     | F34880-04           | Updated for 9.2.1 release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| March 2022    | F34880-03           | Added appendix with instructions for configuring OAS to work with GVP Module IX data model.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Date          | Revised part number | Description                                                                                        |
|---------------|---------------------|----------------------------------------------------------------------------------------------------|
| February 2022 | F34880-02           | Added instructions for backup and restoration of a legacy 9.1 OBIEE catalog into a 9.2 OAS server. |
| December 2021 | F34880-01           | Original version.                                                                                  |