Oracle Life Sciences Empirica

Analytics Configuration Guide for Empirica Reporting

Release 2025.4.01
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ORACLE

Oracle Life Sciences Empirica Analytics Configuration Guide for Empirica Reporting, Release 2025.4.01

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Contents

Preface

This preface contains the following sections:

Documentation accessibility

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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.

- 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 and prerequisites.

1. System requirements

Make sure you have the appropriate version already installed.

- Oracle Analytics Server version 2024 with Java 8 and unlimited encryption extensions (JCE).

2. Credential prerequisites

To access the installation, you will need to have access to:

- Linux non-privileged username used for the Oracle Analytics installation.

- Linux server name hosting Oracle Analytics.

3. Files and URLs

Make sure you have access to the following URLs and files:

- URLs for the Oracle WebLogic Server Administration Console, Oracle Fusion Middleware, and Oracle Analytics.
- `Signal-2025_4_01_<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 2025.4.01 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 `webvdme.properties` file in advance.

- Oracle Empirica Topics release 2025.4.01 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 the topic workflow configuration 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 the topic workflow configuration for reporting.

- Create the Oracle Analytics database account for Oracle Empirica Topics
- Create the Oracle Analytics views for Oracle Empirica Topics
- Create the Oracle Analytics database account for Oracle Empirica Signal Review
- Create the Oracle Analytics objects for Oracle Empirica Signal Review

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.

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**
>
> Note: The proxy analytics account, by default named OBI_PROXY, is used to establish proxy connections for all analytics accounts (e.g. 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 password 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.

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_sigmgt_user_obiee.sql` file in the contents extracted from the `Database.zip` file.

1. Using a text editor, open the create_sigmgt_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_sigmgt_user_obiee.sql` script as the Oracle `SYS` user:

```
$ sqlplus sys@<database_server_TNS name> as sysdba
@create_sigmgt_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 password for later use.

   After the script runs, the `create_sigmgt_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_sigmgt_objects.sql` file in the contents extracted from the `Database.zip` file.
2. Open the `obi_create_sigmgt_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_sigmgt_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_sigmgt_objects.sql
   ```

   A password prompt appears.
5. Enter the password for the **OBIEE_SIGNAL_MGT** database account.

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

4

Configure Oracle Analytics authentication

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>
`Linux non-privileged username`	<Linux non-privileged username>
`MIDDLEWARE_HOME`	Full path to the Oracle Fusion Middleware Home, similar to `.../u01/app/oracle/Middleware/Oracle_Home`
`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 `jdbc:oracle:thin:@//<DB host URL>:<DB port>/<DB service name>`
`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: `(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<DB host URL>)(PORT=<DB port>)) (CONNECT_DATA=(SERVICE_NAME=<DB service name>)))`
`DOMAIN_NAME`	Oracle Analytics domain name, such as `bi`
`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". If MERGE_RPD="FALSE", MODEL_NAME options are: "Topics", "Topics_gvp" or "SignalReview".

> **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.

Increase Oracle Analytics server memory

The default memory allocation to the Oracle Analytics Server must be increased before configuring authentication.

1. In a browser, navigate to the WebLogic console:

   `https://<server name>:<admin port>/console`

   For example:

   `http://<server name>:9500/console`
2. Use the WebLogic admin credentials to login.
3. In the left pane, click **Lock & Edit**.
4. In the left pane, under Domain Structure, expand **Environment** and click **Servers**.
5. In the right pane, click **bi_server**.
6. In the settings for bi_server page, click the **Server Start** tab.
7. In the **Arguments** field, type:

   `-Xms1024m -Xmx4096m`

   > **Note**
   >
   > This is the minimum recommended memory size. Adjust this value based on the hardware specifications.
8. Click **Save**.
9. In the left pane, click **Activate Changes**.
10. Log out of the console.

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-2025_4_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. **If you are customizing the topic workflow configuration for GVP Module IX:**

> **Note**
>
> In the following steps you modify the `configObiee.sh` file. Be sure to back up the `configObiee.sh` file before proceeding.

   a. Edit `configObiee.sh` and replace all occurrences of `Topics.rpd` with `Topics_gvp.rpd`.

   b. Save the `configObiee.sh` file.

10. Copy the `<tempFolder>/OBIEE` directory to the `<linuxObieeDir>` working directory on the Linux server. Record the full path to the `<linuxObieeDir>` directory.

11. 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.

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 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 on the Action menu icon (

) and select **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 on the Action menu icon (

, select **Refresh.**
9. When the Refresh process completes, return to the Edit Signal Configuration page, check the status meaning:

Status	Description
Enable analytics	If successful, the checkbox remains selected and the label shows **Enable analytics** (with no status).
Enable analytics [Status: failed in last refresh]	If unsuccessful, the status shows **[Status: failed in last refresh]** 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 **[Pending for refresh]**.

10. Log out of the Oracle Empirica Signal application.
11. 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.

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. Click the **Signal Dashboard**. Open the **Shared Analysis Criteria** to set filters. After applying filters, open each report tab.

> **Note**
>
> Depending on the signal management 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.

    Topics and/or Signal Review 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`

7

Upgrade OBIEE/OAS for Oracle Empirica Topics 2025.4.01

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.

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. This section 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 OAS instance 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
- Update the Oracle Analytics Server
  Depending on whether you install Oracle Analytics Server (OAS) 2025 or remain on an older version of OAS, you need to either install or update *Empirica Reporting for Oracle Analytics Server.*

Back up existing OBIEE topics reports

If you are upgrading from an existing OAS instance and have existing custom reports to preserve, back up your reports using the following procedure.

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, 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 section, Update the Oracle Analytics database account for Oracle Empirica Topics.

1. Log in to the Oracle Empirica Signal application with your user credentials and make sure you have the Manage Topic Workflow Configurations permission.
2. Navigate to **Manage Topic Workflow Configurations**, **Select configuration**, **Actions**, and select **Edit**.
3. Select **Fields**, then click **Add Field**.
4. 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**.
5. Click **Save**.
6. Navigate to **Manage Accessibility** and the to **Topic Fields by State**.
7. 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.
8. Click **Save**.

Update the Oracle Analytics database account for Oracle Empirica Topics

If there are no customizations in the data model (RPD) or database schema, we recommend dropping the existing OBIEE_TOPIC_WORKFLOW account and recreating it by following the steps in Section 3Prepare 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.

1. On the Oracle Empirica Signal application server, unzip the `Database.zip` file.
2. Using a text editor, open the `update_obiee_9_1_to_9_2.sql` file and modify the following properties as needed for your environment:

```
DEFINE TOPIC_WORKFLOW = '<topic workflow account>';
DEFINE SIGNAL = '<Signal account>';
DEFINE OBIEE_USER = 'OBIEE_&TOPIC_WORKFLOW._&TWC_ID.'
```

3. Open the `populate_obiee_topics.sql` file in a text editor and 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 `update_obiee_9_1_to_9_2.sql` script as the Oracle SYS user:

```
$ sqlplus sys@<database_server_TNS name> as sysdba
@update_obiee_9_1_to_9_2.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. Enter the target topic workflow configuration ID.
7. Enter the target topic workflow configuration ID again.
8. After the script runs, verify there are no errors in `update_obiee_9_1_to_9_2.log` and `populate_obiee_topics.log`.

Update the Oracle Analytics Server

Depending on whether you install Oracle Analytics Server (OAS) 2025 or remain on an older version of OAS, you need to either install or update *Empirica Reporting for Oracle Analytics Server.*

If you want to upgrade to Oracle Empirica Topics 2025, you need to install Oracle Analytics Server and execute the steps in section 4 Configure Oracle Analytics authentication.

If you are staying on the current version of OAS, you need to execute the steps in section 4 Configure Oracle Analytics authentication after replacing the execution of:

```
configObiee.sh
```

by

```
updateObiee.sh
```

For example, in the Configuring Oracle Analytics subsection, change the steps as follows:

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:

   ```
   ./updateObiee.sh
   ```

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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.

> **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.

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

This section 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 Section 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 `.../u01/app/oracle/Middleware/Oracle_Home/user_projects/bi`

Name	Value
ADMIN_USER	Oracle WebLogic Server administrator user name
RPD_CONN_USER	User name for the RPD connection database user

RPD_CONN_DATASOURCE	TNS-style connection string for the RPD, similar to:
	`(DESCRIPTION=(ADDRESS=(PROTOCOL=T CP)`
	`(HOST=<DB host URL>) (PORT=<DB port>))`
	`(CONNECT_DATA=(SERVICE_NAME=<DBservicename>)))`

BI_PORT	Oracle Analytics admin port, such as `9502`

Execute the update script

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

> **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`

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Appendix: Add an additional Topic Workflow Configuration

Add multiple Topic Workflow Configurations

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

Oracle Empirica Signal 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. To add additional TWC to the RPD and catalog, perform the following steps:

1. Note the configuration ID of the TWC.
2. Create a new database account by following the steps in Section 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.
DOMAIN_HOME	Full path to the Oracle Fusion Middleware Home, similar to `../u01/app/ oracle/ Middleware/ Oracle_Home/ user_projects/bi`.
ADMIN_USER	Oracle WebLogic Server administrator user name.
RPD_CONN_USER	User name for the RPD connection database user. If using the proxy user, the format should be `<proxy user>[OBIEE_TOPIC_WORKFLOW_xx]`.
RPD_CONN_PASS	Password for the RPD connection. If using the proxy user, set it to the proxy user's password.

RPD_CONN_DATASOURCE	TNS-style connection string for the RPD, similar to:
	
	`(DESCRIPTION=(ADDRESS=(PROTOC OL=T CP)`
	`(HOST=<DB host URL>) (PORT=<DB port>))`
	`(CONNECT_DATA=(SERVICE_NAME=< DBservicename>)))`

Name	Value
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_Supportcd <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 on **Create link** at the top and then click **Analysis**.
16. Verify a new subject area named Topic area <config ID> appears.

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Change log

Date	Revised part number	Description
October 2025	G38261-02	Updated some metadata elements that don't impact the information in this publication.
October 2025	G38261-01	Modified the following topics for the 2025.4.01 release: • About configuring the Oracle Empirica Signal application • Back up existing OBIEE topics reports • Confirm installation • Enable Oracle Analytics for signal management configurations • Update the Oracle Analytics Server Added new content: • Add multiple Topic Workflow Configurations • Update the Topic workflow configuration for GVP Module IX
July 2025	G31196-02	Updated some backend structural elements that don't impact the information in this publication.
November 2024	F87273-01	For the 9.2.3 release: • Updated version numbers and file paths. • Removed details regarding OAS 6.4, which is no longer supported.
August 2023	F82931-01	For 9.2.2.1 release: • Rebranded product and book title. • Updated the Cloud Support link in the Preface.
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.
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.