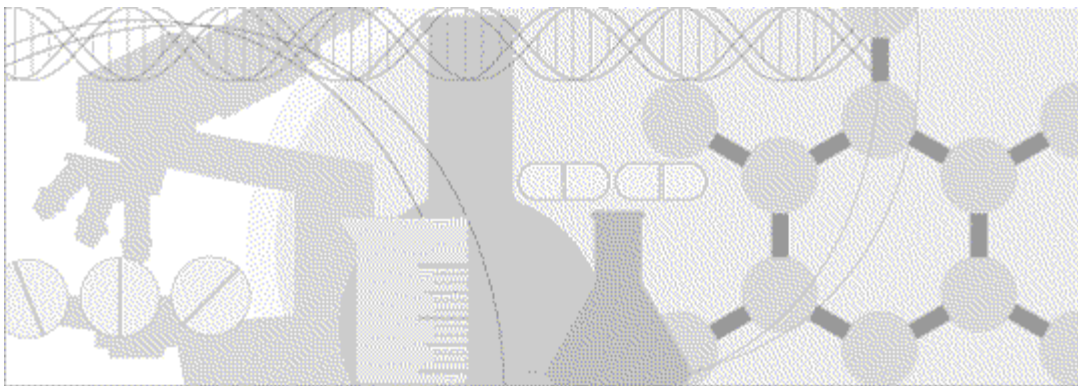


Reporting and Oracle Business Intelligence Configuration Guide

Oracle[®] Health Sciences Empirica Topics 8.1



ORACLE

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Introduction

This document is intended to guide OBIEE administrators in configuring OBIEE with the Empirica Signal application.

CHAPTER 1

System requirements

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About system requirements

To use OBIEE to report on the Empirica Topics application, your system must meet the Oracle Business Intelligence and Oracle Database Instance requirements.

Database requirements for the Oracle database instance used by the Empirica Signal application

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

Oracle Business Intelligence requirements

- Oracle Business Intelligence Enterprise Edition version 12.2.1.0.0 with Java 8 and unlimited encryption extensions (JCE).
- Linux server name hosting OBIEE.
- Linux non-privileged username used for the OBIEE installation.
- URLs for the WebLogic Console, Fusion Middleware Control and BI Analytics.
- `Signal-8_1_0_0_<xxx>-OBIEE.zip` file from the Empirica Signal installation.
- `webvdme.properties` file from the Empirica Signal installation.

Empirica Signal and Empirica Topics requirements

- Empirica Signal release 8.1 or later, installed and configured.

Note: If the Signal application is installed and configured on a machine other than the machine where OBIEE is being installed or configured, copy and keep the required `webvdme.properties` file in advance.

- Empirica Topics release 8.1 or later, installed and configured.
- Name and ID of the Topic Workflow Configuration in the Empirica Signal application.
- Server and file system access to the Empirica Signal application server.

CHAPTER 2

Prepare the Empirica Signal database server for OBIEE

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About preparing the Empirica Signal database server for OBIEE

On the Empirica Signal database server, you create the OBIEE database user account, and populate the account with views that point to data items in the topic workflow configuration for reporting.

Creating the OBIEE Topics database account

- 1 On the 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 TOPIC_WORKFLOW = '<topic workflow account>' ;
DEFINE SIGNAL = '<Signal account>' ;
DEFINE TABLESPACE = '<tablespace>' ;
```
- 4 In a command prompt window, execute the create_topics_user_obiee.sql script as the Oracle **system** user:

```
$ sqlplus system@<database_server_TNS name>
@create_topics_user_obiee.sql
```

Note: The database may reside on a different server than the Signal server.

A password prompt appears.

- 5 Type the password for the Oracle system account.

A list of topic workflow configuration names and IDs appears, and an ID prompt appears.
- 6 Type 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.
- 7 Type a password for the OBIEE_<topic workflow account>_<topic workflow ID> database user account.
- 8 Record the password.

After the script runs, the create_topics_user_obiee.log file is created.

Creating the OBIEE Topics views

- 1 On the 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 ***Creating the OBIEE Topics database account*** (on page 9), for example:

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

A password prompt appears.

- 5 Type the password for the `OBIEE_<topic workflow account>_<topic workflow ID>` database account that you created in ***Creating the OBIEE Topics database account*** (on page 9).

An ID prompt appears.

- 6 Type the topic workflow configuration ID that you typed in ***Creating the OBIEE Topics database account*** (on page 9).

After the script runs, the `populate_obiee_topics.log` file is created.

CHAPTER 3

Configure OBIEE authentication

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About configuring OBIEE authentication

Before you start OBIEE configuration, gather and keep the following:

- Oracle DB password for the Signal schema.
- Password for the `Topics.rpd` file.
- Password for the RPD connection database user.

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

Name	Value
Linux server name	
Linux non-privileged username	
MIDDLEWARE_HOME	Full path to the Middleware Home, similar to <code>.../u01/app/oracle/Middleware/Oracle_Home</code>
ADMIN_USER	WebLogic administrator user name
ADMIN_PASS	WebLogic administrator password
DB_USER	Oracle DB user for the Signal schema
SIGNAL_DB_CONNECTION	Signal database TNS-style connection string, similar to <code>jdbc:oracle:thin:@//<DB host URL>:<DB port>/<DB service name></code>
RPD_CONN_USER	User name for the RPD connection database user, usually of the form <code>OBIEE_TOPICS_WORKFLOW_<ID></code>
RPD_CONN_DATA_SOURCE	TNS-style connection string for the RPD, similar to: <code>(DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=<DB host URL>)(PORT=<DB port>))(CONNECT_DATA=(SERVICE_NAME=<DB service name>)))</code>
DOMAIN_NAME	OBIEE domain name. E.g., <i>bi</i>
ADMIN_PORT	OBIEE admin port. E.g., <i>9500</i>
BI_PORT	OBIEE port. E.g., <i>9502</i>

Note: Replace any tags of the `<whatEverDir>` type with corresponding directory paths. For example, use `/what/ever/dir` instead of `<whatEverDir>`.

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

Copying Empirica Authenticator files to the Linux OBIEE server

In order 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. 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 OBIEE.
- 2 Log in to the Linux server using privileged account and switch to non-privileged account using the following `sudo` command:

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

- 3 Unzip the `Signal-8_1_0_0_<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 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 OBIEE. For example, if SSO is not enabled on OBIEE, comment out the "sso" plugin lines in the `webvdme.properties` file.

- 7 If the OBIEE 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 OBIEE 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 OBIEE authentication* (on page 12). 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>
```

Configuring OBIEE

The script that configures OBIEE starts and stops OBIEE several times. Each restart takes a few minutes. After the installation completes, the following message appears:

```
*****
```

```
* OBIEE configuration complete *
```

```
*****
```

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

CHAPTER 4

Configure the Empirica Signal application

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About configuring the Empirica Signal application

To configure the Empirica Signal application, you must enable OBIEE Topics reporting, assign permissions, and add the OBIEE URL to the `webvdme.properties` file.

Modifying the webvdme.properties file

- 1 Log in to the 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 OBIEE 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 Empirica Signal Weblogic application server using the WebLogic console.

Enabling the OBIEE site option

- 1 Log into the Empirica Signal application as an administrator.
- 2 Click **Settings**.
The Settings page appears.
- 3 Click **Set Site Options**.
The Site Options page appears.
- 4 Select the **Enable OBIEE Reporting** checkbox.
- 5 Click **Save**.
Your changes are saved.
- 6 Log out from the Empirica Signal application.

Assigning user permissions for OBIEE

You must assign the appropriate OBIEE permissions to users who need access to Topics reports. The permissions provided in the Empirica Signal application correspond to the associated roles (BI Consumer, BI Author, BI Administrator) in OBIEE. You should assign the permissions to Empirica Signal users according to their roles in OBIEE.

Users must have at least the BI Consumer permission to view Topics reports in OBIEE.

- 1 Log in to the Empirica Signal application as an administrator.
- 2 Click **Settings**.
The Settings page appears.
- 3 Click **Edit Users**.
The Users page appears.
- 4 Click the Action menu icon next to a user, and select **Edit**.
The Edit User page appears.
- 5 Click **Assign Permissions**.
The Permissions for User page appears.
- 6 In the OBIEE Reporting section, select the appropriate BI permissions.
- 7 Click **Save**.
Your changes are saved.

CHAPTER 5

Starting and stopping WebLogic/OBIEE

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About starting and stopping WebLogic/OBIEE

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

Confirming installation

- 1 Using a Signal username that has a BI or superuser privilege, log into BI Analytics (OBIEE) using the following URL:

`http://<OBIEE server name>:<BI_port>/analytics`

e.g., `http://<servername>:9502/analytics`

The Oracle Business Intelligence screen appears.

- 2 Click the **Catalog** link at the top.

The Catalog window appears.

- 3 In the Folders section, click the **Shared Folders** link.

- 4 In the Folders section, click the **Topics** link.

- 5 In the center section, click the **Expand** link under Analyze Reports, and then the **Expand** link under My Dashboard.

- 6 Expand the selector field for each report under Analyze Reports, and then click the **OK** button.

Note: Depending on the TWC, 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.*

- 7 Click the **Home** link at the top of the screen.

The **Topics** reports should appear in the Recent section.

- 8 Log out of OBIEE.

Starting and stopping WebLogic/OBIEE

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 WebLogic/OBIEE may take a few minutes.

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

About the documentation

Where to find the product documentation

The product documentation is available from the following locations:

- **My Oracle Support** (<https://support.oracle.com>)—*Release Notes* and *Known Issues*.
- **Oracle Technology Network** (<http://www.oracle.com/technetwork/documentation/hsgbu-154445.html>)—The most current documentation set, excluding the *Release Notes* and *Known Issues*.

If the software is available for download, the complete documentation set is available from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com>).

All documents may not be updated for every Empirica Signal release. Therefore, the version numbers for the documents in a release may differ.

Documentation accessibility

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Documentation

Item	Description	Part number	Last updated
<i>Release Notes</i>	The <i>Release Notes</i> document provides descriptions of new features, enhancements, and bug fixes as well as system requirements.	E60410-01	8.1
<i>Known Issues</i>	The <i>Known Issues</i> document provides detailed information about the known issues in the release, along with workarounds, if available.	E70268-01	8.1
<i>User Guide and Online Help</i>	The <i>User Guide and Online Help</i> provides step-by-step instructions on how to use the Empirica Signal and Empirica Topics applications to perform statistical analyses of safety data.	E70269-01	8.1
<i>Installation and Upgrade Guide</i>	The <i>Installation and Upgrade Guide</i> document provides instructions on how to install and configure the environment for the Empirica Signal software.	E60411-01	8.1
<i>Secure Configuration Guide</i>	The <i>Secure Configuration Guide</i> provides guidance and recommendations on securely installing, configuring, and managing the Empirica Signal software and its system components.	E60408-01	8.1
<i>Topics API Guide</i>	The <i>Topics API Guide</i> describes how to integrate a proprietary application with Empirica Topics.	E77813-01	8.1
<i>Topics Reporting and Oracle Business Intelligence Configuration Guide</i>	The <i>Topics Reporting and Oracle Business Intelligence Configuration Guide</i> provides system requirements and configuration instructions for integrating OBIEE with the Empirica Signal application.	E60409-01	8.1
<i>Argus Mart Data and Argus Signal Management Installation Instructions</i>	The <i>Argus Mart Data and Argus Signal Management Installation Instructions</i> describe how to import proprietary data maintained in Argus Mart to Empirica Signal and how to install and configure Argus signal management.	E70267-01	8.1
<i>Argus Mart Data and Argus Signal Management Release Notes</i>	The <i>Argus Mart Data and Argus Signal Management Release Notes</i> describe new features, enhancements, and bug fixes to the Argus Mart data configurations for Empirica Signal. They also document the Argus Mart data tables available to Empirica Signal and the default signal management configuration.	E76553-01	8.1

Item	Description	Part number	Last updated
<i>Third Party Licenses and Notices</i>	The <i>Third Party Licenses and Notices</i> document includes licenses and notices for third party technology that may be included or distributed with the Empirica Signal software.	E78170-01	8.1
