

Oracle Health Sciences Empirica Signal

Oracle Empirica Signal Upgrade Guide



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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Preface

This preface contains the following sections:

- [Documentation accessibility](#)
- [Related resources](#)
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- [Additional copyright information](#)

Documentation accessibility

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

Related resources

All documentation and other supporting materials are available on the [Oracle Help Center](#).

Access to Oracle Support

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Contact our Oracle Customer Support Services team by logging requests in one of the following locations:

- English interface of Oracle Health Sciences Customer Support Portal (<https://hsgbu.custhelp.com/>)
- Japanese interface of Oracle Health Sciences Customer Support Portal (<https://hsgbu-jp.custhelp.com/>)

You can also call our 24x7 help desk. For information, visit <http://www.oracle.com/us/support/contact/health-sciences-cloud-support/index.html> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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1

Apply the 9.2.0.2 patch to Oracle Empirica Signal

- [Prepare to upgrade](#)
To upgrade, you must confirm the version number of your instance of Oracle Empirica Signal and ensure all users are logged out.
- [Unpack the Oracle Empirica Signal patch files](#)
On the application server running Oracle Empirica Signal 9.2.0.x, create a directory to unpack and run the upgrade script.
- [Update listener.properties file](#)
Confirm the RGPS Minimum Lambda parameters in the listener.properties file.
- [Deploy Oracle Empirica Signal](#)
After you have unpacked the Oracle Empirica Signal upgrade files on the application server running Oracle Empirica Signal, you must deploy the Signal application in the Oracle WebLogic Server console.
- [Update Oracle Analytics Server](#)
Complete the following steps if an Oracle Analytics Server (OAS) was set up for Empirica Topics reporting.
- [Restart OAS Server](#)
After you update the application server running OAS, you must restart the BI server in the WebLogic Server console.
- [Confirm the upgrade](#)
Confirm that the upgrade succeeded and notify users.

Prepare to upgrade

To upgrade, you must confirm the version number of your instance of Oracle Empirica Signal and ensure all users are logged out.

You can apply the Oracle Empirica Signal 9.2.0.2 patch to an instance of Oracle Empirica Signal 9.2.0.0 or 9.2.0.1.

For information about installing Oracle Empirica Signal, see the Oracle Empirica Signal 9.2 *Installation and Upgrade Instructions*.

To complete the upgrade procedure, you must have credentials for the following accounts:

- An Oracle Empirica Signal administrator.
 - A non-privileged user who can log in to the application server.
 - An Oracle WebLogic Server administrator.
1. Using the administrator account, log in to the Oracle Empirica Signal application.
 2. To confirm that the version number of Oracle Empirica Signal, click **Settings**, then **About**.

Confirm the version number is one of the following:

- 9.2.0.0.527
 - 9.2.0.1.586
3. Click **Back** to return to the Settings panel.
 4. Click **View Currently Logged in Users**.
If sessions in addition to your own are running, instruct the users to finish their sessions.
 5. Click **Exit**.

Unpack the Oracle Empirica Signal patch files

On the application server running Oracle Empirica Signal 9.2.0.x, create a directory to unpack and run the upgrade script.

1. As the non-privileged user, on the application server running Oracle Empirica Signal 9.2, start a command shell (for example, Putty).
2. Create a temporary directory `<Signal9202>` (for example, `/u01/stage/Signal9202`), and unpack `ESI_9.2.0.2.zip` into it.
3. In the temporary directory, open the file `update_Signal.sh` and verify that directory `/u01/stage/Signal_Install` (hereafter referred to as `<INSTALL_DIR>`), specified in the file, exists.

Change the script to point to the correct location if the actual `<INSTALL_DIR>` location is different.

4. From the temporary directory, give the shell script execute permissions and run it:

```
$ chmod +x update_Signal.sh
```

```
$ ./update_Signal.sh
```

Verify that the script prints *Completed* and that there are no errors.

5. Verify that there is a backup copy of `<INSTALL_DIR>`, for example:

- `Signal_Install.9_2_0_0_527_bkp`

- `Signal_Install.9_2_0_1_586_bkp`

6. Verify the `<INSTALL_DIR>/Signal/Web-INF/lib` directory includes the following file, where `XXX` is the build number:

```
Signal-9_2_0_2_XXX.jar
```

Update listener.properties file

Confirm the RGPS Minimum Lambda parameters in the listener.properties file.

1. Change working directory to `<INSTALL_DIR>/Signal/Web-INF/classes`.
2. Open listener.properties file in a text editor.
3. Locate the section for additional RGPS parameters and confirm the following settings:

```
RGPS\ Maximum\ Lambda=0.3 RGPS\ Minimum\ Lambda=1.0
```

If necessary, modify the RGPS Minimum Lambda from 1.3 to 1.0

Deploy Oracle Empirica Signal

After you have unpacked the Oracle Empirica Signal upgrade files on the application server running Oracle Empirica Signal, you must deploy the Signal application in the Oracle WebLogic Server console.

1. Log in to the Oracle WebLogic Server administration console.
2. On the left, click **Lock & Edit**.
3. From the panel on the left, select the **Deployments** link.
4. In the table on the right, select the **Signal** checkbox.
5. Click **Update**, then **Next**, then **Finish**.
6. On the left, click **Activate Changes**.
7. On the left panel, expand **Environment** and select **Servers**.
8. On the right, click the **Control** tab, then select the **SignalServer** checkbox.
9. Click **Shutdown/Force Shutdown now**.
10. Click **Yes**.
11. On the left, above the table, click the **Refresh** icon.
Wait until SignalServer state is SHUTDOWN.
12. Select the **SignalServer** checkbox.
13. Select the **Start** button.
14. Click **Yes**.
15. If the Topics Service is enabled, repeat steps 2-14 above for **TopicsService** and **TopicsServer**.
16. Click the **Refresh** icon.
Wait until the statuses of SignalServer, TopicsServer (if enabled), and UserProvisioningServer (if enabled) are RUNNING.

Update Oracle Analytics Server

Complete the following steps if an Oracle Analytics Server (OAS) was set up for Empirica Topics reporting.

1. As the non-privileged user, on the application server running OAS, start a command shell (for example, Putty).
2. Create a temporary directory <OAS_9202> (for example, /u01/stage/OAS_9202), and unpack ESI_9.2.0.2.zip into it.
3. If you are upgrading from Signal 9.2.0.1, skip to step 6. If you are upgrading from Signal 9.2.0.0, complete the following steps:
 - a. In the temporary directory, open the file `update_oas_catalog.sh`.
 - b. Verify that the `DOMAIN_HOME` directory, specified in the file, exists.
If necessary, update the path in the script to point to the correct location.

- c. Set the value for `HOST_NAME`.
- d. Verify that `BI_PORT` and `ADMIN_USER` are correct. If not, update them accordingly.
- e. Note the `BACKUP_DIR` directory specified in the file.

This backup directory will be created as it appears in the script. If desired, you can update the path in the script to point to an existing location on your server.
4. From the temporary directory, give the shell script execute permissions and run it:

```
$ chmod +x update_oas_catalog.sh
$ ./update_oas_catalog.sh
```
5. When the script completes, verify the following:
 - a. The script prints the following as the last two lines of output:

```
Command 'unarchive' completed successfully.
Return status from Catalogmanager command : 0
```
 - b. The `Topics_9_2_0_0.catalog` file exists in the `BACKUP_DIR` directory.
6. In the temporary directory, open the file `update_oas.sh`.
 - a. Verify that the `WEBLOGIC_HOME` directory, specified in the file, exists.

If necessary, update the path in the script to point to the correct location.
 - b. Note the `BACKUP_DIR` directory specified in the file.

This backup directory will be created as it appears in the script. If desired, you can update the path in the script to point to an existing location on your server.
 - c. Verify the path for the variable `TOPICS_OBIEE_INSTALL_DIR`.

This directory will be created as it appears in the script. If desired, you can update the path in the script to point to an existing location on your server.
7. From the temporary directory, give the shell script execute permissions and run it:

```
$ chmod +x update_oas.sh
$ ./update_oas.sh
```

Verify that the script prints *Completed* and that there are no errors.
8. Verify the `<WEBLOGIC_HOME>/wlserver/server/lib/mbeantypes` directory includes the following file:

```
Signal-9_2_0_2_587.jar
```
9. Verify the `<TOPICS_OBIEE_INSTALL_DIR>/reporting` directory includes the following file:

```
Topics_gvp.catalog
```

Restart OAS Server

After you update the application server running OAS, you must restart the BI server in the WebLogic Server console.

1. Log in to the Oracle WebLogic Server administration console.
2. On the left panel, expand **Environment** and select **Servers**.

3. On the right, click the **Control** tab, then select the **bi_server** checkbox.
4. Click **Shutdown/Force Shutdown now**.
5. Click **Yes**.
6. On the left, above the table, click the **Refresh** icon.
Wait until bi_server state is SHUTDOWN.
7. Select the **bi_server** checkbox.
8. Select the **Start** button.
9. Click **Yes**.
10. Click the **Refresh** icon and wait until the state is RUNNING.

Confirm the upgrade

Confirm that the upgrade succeeded and notify users.

1. Using the administrator account, log in to Oracle Empirica Signal.
2. From the left navigation pane, select **Settings**, then **About**.
3. Verify that the Oracle Empirica Signal version is 9.2.0.2.xxx, where xxx is the build number.
4. Click **Exit**.
5. Notify users that the Oracle Empirica Signal instance is available.

Note:

The 9.2.0.2 upgrade also enables you to configure Oracle Analytics Server to work with the GVP Module IX data model. For instructions, see *Oracle Empirica Topics Reporting and Oracle Analytics Configuration Guide* .

2

Apply previous patches to Oracle Empirica Signal

Access the upgrade instructions for prior patches.

Oracle Empirica Signal patches are cumulative. As long as your instance meets the prerequisites specified at [Prepare to Upgrade](#), you can apply the latest patch to your version without first applying previous patches. If you need access to the upgrade instructions for previous patches, use the links below.

- [Apply the 9.2.0.1 patch to Oracle Empirica Signal](#)

Apply the 9.2.0.1 patch to Oracle Empirica Signal

- [Prepare to upgrade](#)
To upgrade, you must confirm the version number of your instance of Oracle Empirica Signal and ensure all users are logged out.
- [Unpack the Oracle Empirica Signal 9.2.0.1 files](#)
On the application server running Oracle Empirica Signal 9.2.0.0, create a directory to unpack and run the upgrade script.
- [Update listener.properties file](#)
Confirm the RGPS Minimum Lambda parameters in the listener.properties file.
- [Deploy Oracle Empirica Signal](#)
After you have unpacked the Oracle Empirica Signal upgrade files on the application server running Oracle Empirica Signal, you must deploy the Signal application in the Oracle WebLogic Server console.
- [Update Oracle Analytics Server](#)
Complete the following steps if an Oracle Analytics Server (OAS) was set up for Empirica Topics reporting.
- [Restart OAS Server](#)
After you update the application server running OAS, you must restart the BI server in the WebLogic Server console.
- [Confirm the upgrade](#)
Confirm that the upgrade succeeded and notify users.

Prepare to upgrade

To upgrade, you must confirm the version number of your instance of Oracle Empirica Signal and ensure all users are logged out.

You can apply the Oracle Empirica Signal 9.2.0.1 patch to an instance of Oracle Empirica Signal 9.2.0.0.

For information about installing Oracle Empirica Signal, see the Oracle Empirica Signal 9.2 *Installation and Upgrade Instructions*.

To complete the upgrade procedure, you must have credentials for the following accounts:

- An Oracle Empirica Signal administrator.
 - A non-privileged user who can log in to the application server.
 - An Oracle WebLogic Server administrator.
1. Using the administrator account, log in to the Oracle Empirica Signal application.
 2. To confirm that the version number of Oracle Empirica Signal, click **Settings**, then **About**.
Confirm the version number is 9.2.0.0.527.
 3. Click **Back** to return to the Settings panel.
 4. Click **View Currently Logged in Users**.
If sessions in addition to your own are running, instruct the users to finish their sessions.
 5. Click **Exit**.

Unpack the Oracle Empirica Signal 9.2.0.1 files

On the application server running Oracle Empirica Signal 9.2.0.0, create a directory to unpack and run the upgrade script.

1. As the non-privileged user, on the application server running Oracle Empirica Signal 9.2, start a command shell (for example, Putty).
2. Create a temporary directory <Signal9201> (for example, /u01/stage/Signal9201), and unpack ESI_9.2.0.1.zip into it.
3. In the temporary directory, open the file `update_Signal.sh` and verify that directory /u01/stage/Signal_Install (hereafter referred to as <INSTALL_DIR>), specified in the file, exists.
Change the script to point to the correct location if the actual <INSTALL_DIR> location is different.
4. From the temporary directory, give the shell script execute permissions and run it:

```
$ chmod +x update_Signal.sh
```

```
$ ./update_Signal.sh
```

Verify that the script prints *Completed* and that there are no errors.
5. Verify that there is a backup copy of <INSTALL_DIR> (for example: `Signal_Install.9_2_0_0_527_bkp`).
6. Verify the <INSTALL_DIR>/Signal/Web-INF/lib directory includes the following files, where XXX is the build number:
`Signal-9_2_0_1_xxx.jar`

Update listener.properties file

Confirm the RGPS Minimum Lambda parameters in the listener.properties file.

1. Change working directory to <INSTALL_DIR>/Signal/Web-INF/classes.
2. Open listener.properties file in a text editor.

3. Locate the section for additional RGPS parameters and confirm the following settings:
`RGPS\ Maximum\ Lambda=0.3 RGPS\ Minimum\ Lambda=1.0`
If necessary, modify the RGPS Minimum Lambda from 1.3 to 1.0

Deploy Oracle Empirica Signal

After you have unpacked the Oracle Empirica Signal upgrade files on the application server running Oracle Empirica Signal, you must deploy the Signal application in the Oracle WebLogic Server console.

1. Log in to the Oracle WebLogic Server administration console.
2. On the left, click **Lock & Edit**.
3. From the panel on the left, select the **Deployments** link.
4. In the table on the right, select the **Signal** checkbox.
5. Click **Update**, then **Next**, then **Finish**.
6. On the left, click **Activate Changes**.
7. On the left panel, expand **Environment** and select **Servers**.
8. On the right, click the **Control** tab, then select the **SignalServer** checkbox.
9. Click **Shutdown/Force Shutdown now**.
10. Click **Yes**.
11. On the left, above the table, click the **Refresh** icon.
Wait until SignalServer state is SHUTDOWN.
12. Select the **SignalServer** checkbox.
13. Select the **Start** button.
14. Click **Yes**.
15. If the Topics Service is enabled, repeat steps 2-14 above for **TopicsService** and **TopicsServer**.
16. Click the **Refresh** icon.

Wait until the statuses of SignalServer, TopicsServer (if enabled), and UserProvisioningServer (if enabled) are RUNNING.

Update Oracle Analytics Server

Complete the following steps if an Oracle Analytics Server (OAS) was set up for Empirica Topics reporting.

1. As the non-privileged user, on the application server running OAS, start a command shell (for example, Putty).
2. Create a temporary directory <OAS_9201> (for example, /u01/stage/OAS_9201), and unpack `ESI_9.2.0.1.zip` into it.
3. In the temporary directory, open the file `update_oas_catalog.sh`.
 - a. Verify that the `DOMAIN_HOME` directory, specified in the file, exists.
If necessary, update the path in the script to point to the correct location.

- b. Set the value for `HOST_NAME`.
 - c. Verify that `BI_PORT` and `ADMIN_USER` are correct. If not, update them accordingly.
 - d. Note the `BACKUP_DIR` directory specified in the file.
This backup directory will be created as it appears in the script. If desired, you can update the path in the script to point to an existing location on your server.
4. From the temporary directory, give the shell script execute permissions and run it:


```
$ chmod +x update_oas_catalog.sh
```

```
$ ./update_oas_catalog.sh
```

 Enter the admin user password when prompted.
 5. When the script completes, verify the following:
 - a. The script prints the following as the last two lines of output:


```
Command 'unarchive' completed successfully.
```

```
Return status from Catalogmanager command : 0
```
 - b. The `Topics_9_2_0_0.catalog` file exists in the `BACKUP_DIR` directory.
 6. In the temporary directory, open the file `update_oas.sh`.
 - a. Verify that the `WEBLOGIC_HOME` directory, specified in the file, exists.
If necessary, update the path in the script to point to the correct location.
 - b. Note the `BACKUP_DIR` directory specified in the file.
This backup directory will be created as it appears in the script. If desired, you can update the path in the script to point to an existing location on your server.
 7. From the temporary directory, give the shell script execute permissions and run it:


```
$ chmod +x update_oas.sh
```

```
$ ./update_oas.sh
```

 Verify that the script prints *Completed* and that there are no errors.
 8. Verify the `<WEBLOGIC_HOME>/wlserver/server/lib/mbeantypes` directory includes the following files:


```
log4j-api-2.17.1.jar
```

```
log4j-core-2.17.1.jar
```

Restart OAS Server

After you update the application server running OAS, you must restart the BI server in the WebLogic Server console.

1. Log in to the Oracle WebLogic Server administration console.
2. On the left panel, expand **Environment** and select **Servers**.
3. On the right, click the **Control** tab, then select the **bi_server** checkbox.
4. Click **Shutdown/Force Shutdown now**.
5. Click **Yes**.
6. On the left, above the table, click the **Refresh** icon.

Wait until `bi_server` state is SHUTDOWN.

7. Select the **bi_server** checkbox.
8. Select the **Start** button.
9. Click **Yes**.
10. Click the **Refresh** icon and wait until the state is RUNNING.

Confirm the upgrade

Confirm that the upgrade succeeded and notify users.

1. Using the administrator account, log in to Oracle Empirica Signal.
2. From the left navigation pane, select **Settings**, then **About**.
3. Verify that the Oracle Empirica Signal version is `9.2.0.1.xxx` where `xxx` is the build number.
4. Click **Exit**.
5. Notify users that the Oracle Empirica Signal instance is available.

Change log

Date	Revised part number	Description
March 2022	F52369-03	Added upgrade instructions for 9.2.0.2 patch.
February 2022	F52369-02	Original version for 9.2.0.1 patch.