

Oracle® Healthcare Foundation

Application Toolkit Installation Guide

Release 7.1.1

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Oracle Healthcare Foundation provides a standalone Application Toolkit that enables you to build downstream applications for Oracle Healthcare Foundation without the need to install the complete product. The Application Toolkit includes the Healthcare Common Data Mart (HCD) data model and the Oracle Business Intelligence Enterprise Edition (OBIEE) RPD file for HCD, which is used for Self-Service Analytics.

This manual contains the following topics:

- [Installing the Application Toolkit HCD on Linux](#)
- [Installing the Application Toolkit HCD on Windows](#)
- [Installing the RPD File for Self-Service Analytics](#)
- [Troubleshooting](#)

1 Installing the Application Toolkit HCD on Linux

1. [Check Software Requirements](#)
2. [Check Prerequisites](#)
3. [Prepare the Installer](#)
4. [Run the Installer](#)

1.1 Check Software Requirements

- Oracle Linux 6.5 or above (64-bit)
 - Oracle Database 12.1.0.2.0 Enterprise Edition
 - Python 2.6.6
 - Linux X-windows (Linux Graphical User Interface)
-

1.2 Check Prerequisites

- Make sure that the ORACLE_HOME and PATH environment variables are setup in your session. For example:

```
export ORACLE_HOME=/u01/app/oracle/product/121020 export PATH=$PATH:$ORACLE_HOME/bin
```

Make sure that the password expiry notification message does not display for the Sys and system schemas.

- Set the NLS_LENGTH_SEMANTICS parameter to either CHAR or BYTE, based on your requirements.

For Oracle Healthcare Foundation Globalization Support information, see *Oracle Database Globalization Support Guide* and set your database character set accordingly.

- Make sure the database connection through SERVICE_NAME is enabled. You can verify the database connectivity using the following command:

```
SQL>connect <username>@<hostname>:<port number>/<service name>
```

1.3 Prepare the Installer

-
- Extract the contents of the Oracle Healthcare Foundation media pack to your system.

- Navigate to the `<media_pack_location>/` folder.

- Unzip the `OHF_V711_AT_Linux-x64.zip` file where you want to launch the installer using the following command:

```
unzip -a OHF_V711_AT_Linux-x64.zip
```

- Navigate to the `Disk1/install` folder.

- Change the protection on files as follows:

```
chmod 755 *
```

1.4 Run the Installer

Start the Oracle Universal Installer (OUI) using the following command:

- If the database server is on the machine where the installer is running:

```
sh runInstaller.sh -local
```

- If the database server is on a different machine:

```
sh runInstaller.sh -local remote_installation=true
```

where, the `-local` option is to install on the local node irrespective of the cluster nodes specified on the installer machine.

Screen	Action
<input type="checkbox"/> Welcome	Click Next .
<input type="checkbox"/> Specify Home Details	Enter the installation home name and location. Click Next .
<input type="checkbox"/> Oracle Client Home Configuration	Specify the Oracle client home path. The installer validates this path. Click Next .

Screen	Action
Database Configuration	<p>Enter values for the following fields:</p> <ul style="list-style-type: none"> ■ Host name - By default, the system host name appears. ■ Port - By default, the port number is 1521. You can edit this field if required. ■ Service name ■ System user password ■ Sys user password <p>Click Next.</p>
<input type="checkbox"/> Healthcare Common Data Mart Configuration	<p>Enter values for the following fields:</p> <ul style="list-style-type: none"> ■ Common data mart schema name ■ Common data mart schema password <p>Note: If you are upgrading from a previous Application Toolkit version, provide the values for the existing Common data mart schema.</p> <p>Click Next.</p>
<input type="checkbox"/> Tablespace Details	<p>Specify the default tablespace details for the HCD schema. Enter values for the following fields:</p> <ul style="list-style-type: none"> ■ Tablespace name ■ Initial size ■ Maximum size - By default, this is set to UNLIMITED. <p>Click Next.</p>
<input type="checkbox"/> Temporary Tablespace	<p>Specify the temporary tablespace details for the Common datamart schema. Enter values for the following fields:</p> <ul style="list-style-type: none"> ■ Tablespace name ■ Initial size ■ Maximum size - By default, this is set to UNLIMITED. <p>Click Next.</p>
<input type="checkbox"/> Tablespace Data File Location	<p>Specify the location of the Tablespace data files. This is the directory on the database server where the data files are created during the installation.</p> <p>For example,</p> <pre>/u01/oradata/dbname/</pre> <p>The installer does not validate the tablespace location entered. Ensure that the tablespace location physically exists if the database server is on the remote server. Otherwise, the installer will fail during the installation.</p> <p>Click Next.</p>
<input type="checkbox"/> Verify Configuration Parameters	Click Next .
<input type="checkbox"/> Summary	Click Install .
<input type="checkbox"/> End of Installation	After reviewing the installation information, click Exit .

If the installation fails, see [Troubleshooting](#).

2 Installing the Application Toolkit HCD on Windows

1. [Check Software Requirements](#)
2. [Check Prerequisites](#)
3. [Prepare the Installer](#)
4. [Run the Installer](#)

2.1 Check Software Requirements

- Microsoft Windows (64-bit) OS
 - Oracle Database 12.1.0.2.0 Enterprise Edition
 - Python 2.6.6
-

2.2 Check Prerequisites

- Make sure that the ORACLE_HOME and PATH environment variables are setup in your session.
- Make sure that the password expiry notification message does not display for the Sys and system schemas.
- Set the NLS_LENGTH_SEMANTICS parameter to either CHAR or BYTE, based on your requirements.

For Oracle Healthcare Foundation Globalization Support information, see *Oracle Database Globalization Support Guide* and set your database character set accordingly.

- Make sure the database connection through SERVICE_NAME is enabled. You can verify the database connectivity using the following command:

```
SQL>connect <username>@<hostname>:<port number>/<service name>
```

2.3 Prepare the Installer

- Extract the contents of the Oracle Healthcare Foundation media pack to your system.
 - Navigate to the <media_pack_location>/ folder.
 - Unzip the **OHF_V711_AT_Windows-x64.zip** file where you want to launch the installer.
 - Navigate to the **Disk1/install** folder.
-

2.4 Run the Installer

Start the Oracle Universal Installer (OUI) using the following command:

- If the database server is on the machine where the installer is running:
setup.exe
- If the database server is on a different machine:
setup.exe remote_installation=true

Screen	Action
<input type="checkbox"/> Welcome	Click Next .
<input type="checkbox"/> Specify Home Details	Enter the installation home name and location. Click Next .
<input type="checkbox"/> Oracle Client Home Configuration	Specify the Oracle client home path. The installer validates this path. Click Next .
<input type="checkbox"/> Database Configuration	Enter values for the following fields: <ul style="list-style-type: none"> ■ Host name - By default, the system host name appears. ■ Port - By default, the port number is 1521. You can edit this field if required. ■ Service name ■ System user password ■ Sys user password Click Next .
<input type="checkbox"/> Healthcare Common Data Mart Configuration	Enter values for the following fields: <ul style="list-style-type: none"> ■ Common data mart schema name ■ Common data mart schema password <p>Note: If you are upgrading from a previous Application Toolkit version, provide the values for the existing Common data mart schema.</p> Click Next .
<input type="checkbox"/> Tablespace Details	Specify the default tablespace details for the HCD schema. Enter values for the following fields: <ul style="list-style-type: none"> ■ Tablespace name ■ Initial size ■ Maximum size - By default, this is set to UNLIMITED. Click Next .
<input type="checkbox"/> Temporary Tablespace	Specify the temporary tablespace details for the Common datamart schema. Enter values for the following fields: <ul style="list-style-type: none"> ■ Tablespace name ■ Initial size ■ Maximum size - By default, this is set to UNLIMITED. Click Next .
<input type="checkbox"/> Tablespace Data File Location	Specify the location of the Tablespace data files. This is the directory on the database server where the data files are created during the installation. For example, <code>C:/app/oracle/product/oradata/dbname/</code> The installer does not validate the tablespace location entered. Ensure that the tablespace location physically exists if the database server is on the remote server. Otherwise, the installer will fail during the installation. Click Next .

Screen	Action
Verify Configuration Parameters	Click Next .
<input type="checkbox"/> Summary	Click Install .
<input type="checkbox"/> End of Installation	After reviewing the installation information, click Exit .

If the installation fails, see [Troubleshooting](#).

3 Installing the RPD File for Self-Service Analytics

1. [Check Software Requirements](#)
2. [Prepare the RPD File](#)
3. [Install the RPD File](#)

3.1 Check Software Requirements

- Oracle Business Intelligence Enterprise Edition (OBIEE) 12.2.1.2.0
- Oracle Business Intelligence Developer Client Tools 12.2.1.2.0
- Java Runtime Environment (JRE) 1.8 Update 91 (JRE 1.8 u91) or above
- Oracle Healthcare Foundation Application Toolkit Healthcare Common Data Mart

3.2 Prepare the RPD File

- Extract the contents of the Oracle Healthcare Foundation media pack to your system.
- Navigate to the `<media_pack_location>/` folder.
- Depending on your operating system, unzip the `OHF_V711_Linux-x64.zip` or the `OHF_V711_AT_Windows_x64.zip` file.

3.3 Install the RPD File

- Navigate to the `selfserviceanalytics` folder in the media pack.
- Open the RPD file, `ohf_ssa_hcd.rpd`, available in the `selfserviceanalytics\hcd_rpd` folder using the Oracle BI Administration Tool, and perform the following steps:
 1. Navigate to **Manage > Variables**, update the default value of the puser variable to point to the HCD schema name, and click **OK**.
 2. In the Physical layer, navigate to **localhost > Properties > Connection Pools**, and double-click **Relation Connection**.
 - Update the Data source name with the database host name, port number, and service name.
 - Update the HCD schema password.
 3. In the Physical layer, rename the physical schema `hcd` with the HCD schema name.

Save the **ohf_ssa_hcd.rpd** file and deploy it on the OBIEE server for analytics and reporting.

For details on deploying the RPD file, see *Oracle Business Intelligence Enterprise Edition 12.2.1.2.0* documentation.

4 Troubleshooting

If the installation fails, check the log files for errors (see [Installation Log Files](#)).

You must fix the issues and rerun the installer from the installation home location.

When re-executing the installer due to a failure, enter the same details in the question prompting phase at all times. Do not delete any objects in the installation folder.

Contact Oracle support, if necessary, to resolve any persisting errors.

4.1 Installation Log Files

While installing the HCD Data Model, the installer generates the following log files:

Log File	Description
installActions<timestamp>.log	Records the actions of the installer and can be used to diagnose issues with the installer.
oraInstall<timestamp>.out	Records the output of the SQL scripts run by the installer. Database objects are installed using the Python framework.
oraInstall<timestamp>.err	Records the errors from the SQL scripts run by the installer.
<INSTALL_HOME>/at/install.err	This file is generated only when there are any SQL errors. Database objects are installed using the Python framework and the error logging is redirected to this location.

The log files are time stamped and each installation session creates a new log file. The log files are located at **<ORACLE_BASE>/oraInventory/logs**.

For example:

- Linux - /u01/app/oraInventory/logs
- Windows - C:\Program Files\Oracle\Inventory\logs

When reporting any problems that occur during installation to Oracle support, make sure that you include all the above log files.

5 Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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