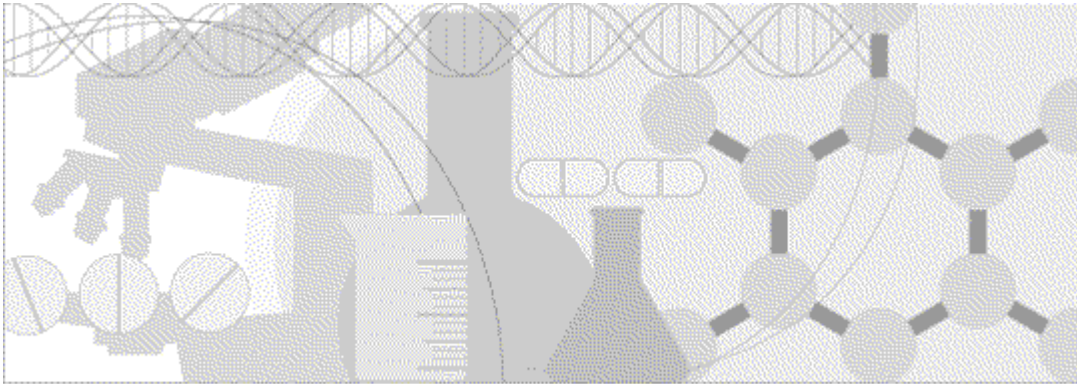


# Installation Guide

Oracle<sup>®</sup> Health Sciences Central Designer  
Release 2.0.4.1



ORACLE<sup>®</sup>

Part Number: E60873-01

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# About this guide

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## Overview of this guide

This guide provides a brief overview of the Central Designer software, a description of hardware and software requirements, and step-by-step instructions for installing, uninstalling, and upgrading the software.

## Audience

This guide is for IT administrators and others who are responsible for installing, upgrading, and uninstalling the Central Designer software.

# Documentation

The product documentation is available from the following locations:

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

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

Item	Description
<i>Release Notes</i>	The <i>Release Notes</i> document provides detailed information about the requirements, enhancements, and fixed issues in the current release.
<i>Known Issues</i>	The <i>Known Issues</i> document provides detailed information about the known issues in this release, along with workarounds, if available.
<i>Installation Guide</i>	The <i>Installation Guide</i> provides system requirements and instructions for installing and upgrading the Oracle® Health Sciences Central Designer software and the Oracle® Health Sciences Central Designer Administrator software.
<i>Administrator Guide</i>	The <i>Administrator Guide</i> describes how to use the Oracle® Health Sciences Central Designer Administrator software to set up users, permissions, system configuration parameters, and catalog defaults.
<i>User Guide</i>	<p>The <i>User Guide</i> introduces the study design environment in the Oracle® Health Sciences Central Designer application and describes how to work as a study design team in that environment, including how to:</p> <ul style="list-style-type: none"> <li>• Work collaboratively.</li> <li>• Maximize study design efficiency by reusing study objects.</li> <li>• Manage collections of study objects.</li> </ul>
<i>InForm Design Guide</i>	The <i>InForm Design Guide</i> describes how to design a study for deployment to the InForm application.
<i>Rules Reference Guide</i>	<p>The <i>Rules Reference Guide</i> is a reference to the tools that are available for creating rule expressions, including:</p> <ul style="list-style-type: none"> <li>• Study object properties.</li> <li>• Functions.</li> <li>• Constants.</li> <li>• Data mappings.</li> <li>• Methods, operators, and literals.</li> </ul>

Item	Description
<i>Secure Configuration Guide</i>	The <i>Secure Configuration Guide</i> provides an overview of the security features provided with the Oracle® Health Sciences Central Designer application, including details about the general principles of application security, and how to install, configure, and use the Central Designer application securely.
<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 with the Central Designer software.

## 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>.



## If you need assistance

Oracle customers have access to support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info>, or if you are hearing impaired, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs>.

## Finding Central Designer information and patches on My Oracle Support

The latest information about the Central Designer application is on the Oracle Support self-service website, My Oracle Support. Before you install and use the Central Designer application, check My Oracle Support for the latest information, including *Release Notes* and *Known Issues*, alerts, white papers, bulletins, and patches.

### Creating a My Oracle Support account

You must register at My Oracle Support to obtain a user name and password before you can enter the site.

- 1 Open a browser to <https://support.oracle.com>.
- 2 Click the **Register** link.
- 3 Follow the instructions on the registration page.

### Finding information and articles

- 1 Sign in to My Oracle Support at <https://support.oracle.com>.
- 2 If you know the ID number of the article you need, enter the number in the text box at the top right of any page, and then click the magnifying glass icon or press **Enter**.
- 3 To search the knowledge base, click the **Knowledge** tab, and then use the options on the page to search by:
  - Product name or family.
  - Keywords or exact terms.

### Finding patches

You can search for patches by patch ID or number, product, or family.

- 1 Sign in to My Oracle Support at <https://support.oracle.com>.
- 2 Click the **Patches & Updates** tab.
- 3 Enter your search criteria and click **Search**.
- 4 Click the patch ID number.

The system displays details about the patch. You can view the Read Me file before downloading the patch.

- 5 Click **Download**, and then follow the instructions on the screen to download, save, and install the patch files.

## Finding Oracle documentation

The Oracle website contains links to Oracle user and reference documentation. You can view or download a single document or an entire product library.

## Finding Oracle Health Sciences documentation

For Oracle Health Sciences applications, go to the Oracle Health Sciences Documentation page at <http://www.oracle.com/technetwork/documentation/hsgbu-clinical-407519.html>.

**Note:** Always check the Oracle Health Sciences Documentation page to ensure you have the most up-to-date documentation.

## Finding other Oracle documentation

- 1 Do one of the following:
  - Go to <http://www.oracle.com/technology/documentation/index.html>.
  - Go to <http://www.oracle.com>, point to the **Support** tab, and then click **Product Documentation**.
- 2 Scroll to the product you need, and click the link.

## Finding prerequisite software for Oracle Health Sciences applications

Prerequisite software for Oracle Health Sciences applications is available from the following locations:

- Download the latest major or minor release from the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/>).

For information on the credentials that are required for authorized downloads, click **FAQs** on the main page of the Oracle Software Delivery Cloud portal.

- Download subsequent patch sets and patches from My Oracle Support (<https://support.oracle.com>).

To find patch sets or patches, select the **Patches & Updates** tab.

If a previous version of prerequisite software is no longer available on the Oracle Software Delivery Cloud, log a software media request Service Request (SR). Previous versions of prerequisite software are archived and can usually be downloaded. After you open an SR, you can check its status:

- US customers: Call 1-800-223-1711.
- Outside the US: Check [www.oracle.com/us/support/contact/index.html](http://www.oracle.com/us/support/contact/index.html) for your local Oracle Support phone number.

For more information on logging a media request SR, go to My Oracle Support for Document 1071023.1: Requesting Physical Shipment or Download URL for Software Media (<https://support.oracle.com/epmos/faces/DocumentDisplay?id=1071023.1>).

## CHAPTER 1

# Architectural overview of the environment

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# Introduction to the Central Designer software

The Central Designer software consists of:

- **Central Designer server application**—Communicates with the client applications through web services.
- **Central Designer client application**—Provides a collaborative environment for designing clinical studies and deploying them to the InForm application.
- **Central Designer Administrator client application**—Provides an environment for setting up administrative information, such as users, roles, and system configuration information.

# Physical architecture

The physical configuration of the Central Designer software includes:

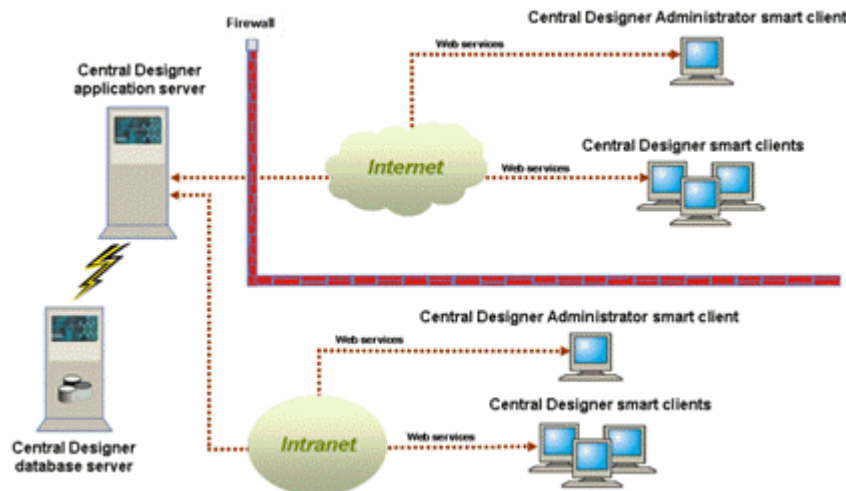
- A database server machine.
- One or more application server machines. For more information, see *Web farm capabilities* (on page 4).
- One or more client machines.

There are three configuration options for the Central Designer software.

Configuration	Description
Single-tier	The application server, database server, and client applications run on the same machine.
Two-tier	The application server and database server run on the same machine, and the client applications run on another machine.
Three-tier	The database server, application server, and client applications each run on a separate machine.

## Notes:

- For optimum performance, Oracle recommends a three-tier configuration.
- If the application server and database server are on the same computer, you must install the Oracle Server software and Oracle Client software in the same home, or the Central Designer server installation will not work.



## Web farm capabilities

You can expand the performance capabilities of the Central Designer application server by adding multiple servers in a farm configuration. This configuration is called a web farm. A web farm setup distributes requests from the client applications among multiple application servers. A web farm is useful for the following reasons:

- A large number of requests that might impact performance can be spread out among multiple application servers, thus improving performance.
- Multiple application servers allow for redundancy and failover protection.

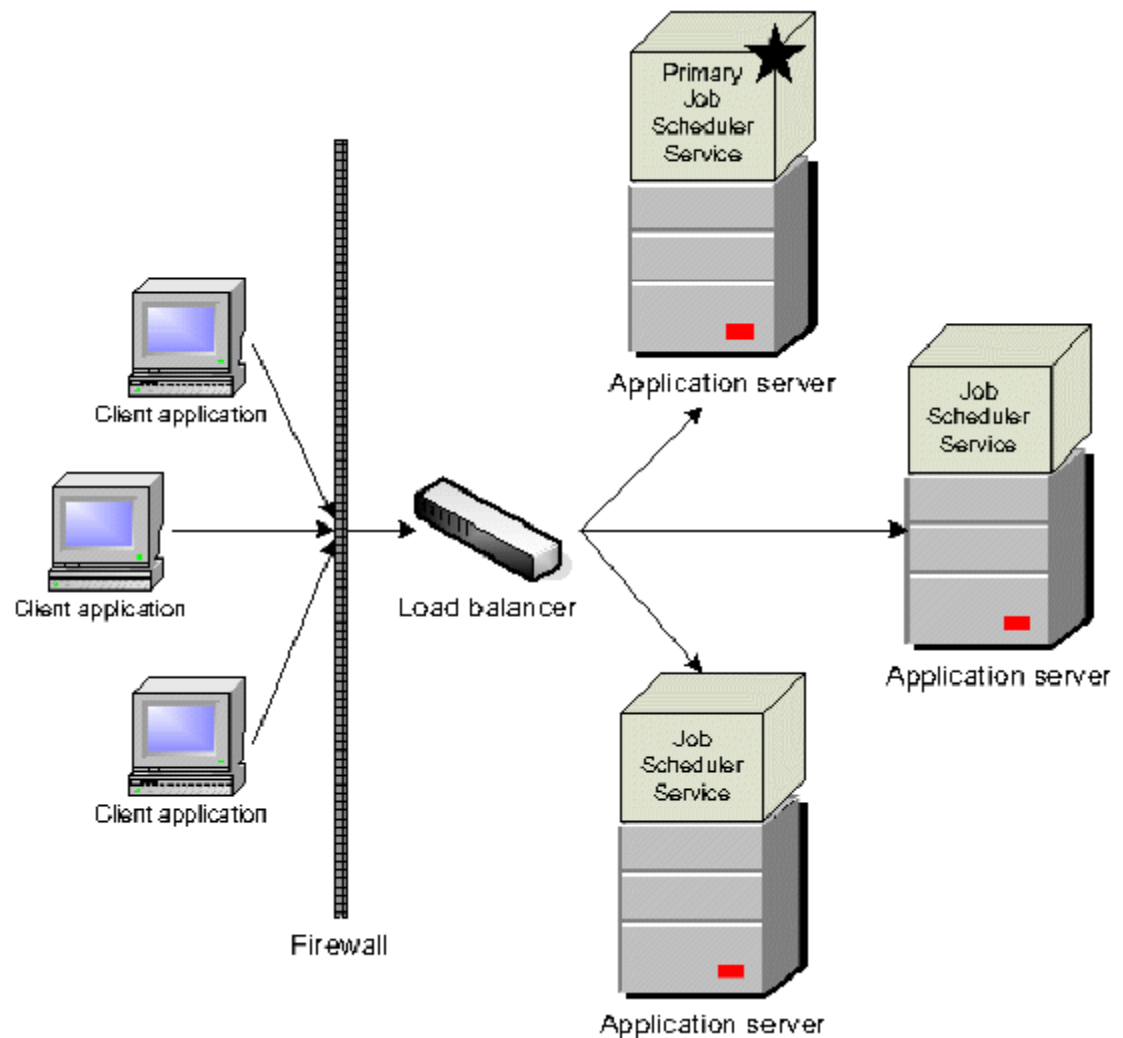
In a web farm configuration, all application servers can process any request. However, certain operations are run asynchronously using the Central Designer Job Scheduler. The Job Scheduler is installed on every application server, but only one Job Scheduler can process jobs, and only one service is enabled to process requests. The Job Scheduler service that processes all requests is called the primary Job Scheduler. You can change the primary Job Scheduler at any time. Oracle recommends setting the Job Scheduler on the most powerful machine in the web farm as the primary.

**Note:** You must use the same port number, which you specify during installation, for all application servers within a web farm. If one of the application servers uses a different port number, the Job Scheduler will not work if the machine is set to run the primary Job Scheduler. By default, the port number is 53000.

## Illustration of a web farm configuration

The following tasks are performed in a web farm configuration:

- The client applications send requests through a firewall to a load balancer. The load balancer distributes requests among application servers.
- The job scheduler services on all of the application servers run; however, only the primary job scheduler processes requests. The other job scheduler services do not accept any requests. Examples of tasks that require the job scheduler service include importing and validation.
- All tasks that do not require the job scheduler service are distributed among the application servers.



## Information that is stored in the database

Units information and report definitions are stored in the database and are used by all application servers in a web farm.

- You can export the units information to a file and then modify and import the file. You perform this task in the Central Designer Administrator application.
- If you have created custom reports, you must back up the Report configuration section of the DesignerWebServices.config file before upgrading and then import it into the database.

For more information about working with this information, see the *Administrator Guide*.

## About adding application servers

You can add additional application servers to a web farm environment at any time, even if you did not configure your first application server to support a web farm.

When you install a second application server, the installation recognizes the existing application server installation. The Job Scheduler service on the existing application server is set as the primary by default, but you can set the Job Scheduler for the second (or higher) application server as the primary during the installation of its application server.

You install additional application servers the same way that you install the first application server. The installation process configures the application server computers as a web farm. For more information, see *Installing the Central Designer application server* (on page 34).

## Managing web farm capabilities

After a web farm is installed, you can manage it using the Central Designer Administrator software. You perform the following tasks in the Central Designer Administrator software:

- Viewing the servers that are in the web farm.
- Determining and changing the primary job scheduler.
- Working with Event Log messages for the web farm, including:
  - Viewing the messages.
  - Changing the default limit for the number of entries in the log.
  - Deleting all entries in the log.
- Modifying the file for report definitions.
- Modifying units information.

For more information, see the *Administrator Guide*.



## CHAPTER 2

# Checklists for software installation

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## Checklist—Planning the server installation

Use the following checklist to help plan the Central Designer application server and database server installations.

If you are upgrading, see *Upgrading the software to this release* (on page 43).

<input checked="" type="checkbox"/> Task	Information
<input type="checkbox"/> 1 Determine if the setup is single-tier or multi-tier.	<i>Physical architecture</i> (on page 3).
<input type="checkbox"/> 2 Make sure all system requirements, including .NET Framework requirements, have been met for the application server.	<ul style="list-style-type: none"> <li>• <i>System requirements: Application servers</i> in the <i>Release Notes</i>.</li> <li>• <b><i>Verifying that the correct version of Microsoft .NET Framework is installed</i></b> (on page 14).</li> </ul>
<input type="checkbox"/> 3 Make sure all system requirements, including required Oracle database parameters, have been met for the database server.	<ul style="list-style-type: none"> <li>• <i>System requirements: Database server</i> in the <i>Release Notes</i>.</li> <li>• <b><i>Install the Oracle database software on the database server</i></b> (on page 22).</li> </ul>
<input type="checkbox"/> 4 On the database server, create the database and tablespaces.	<p>The database and tablespaces must be created prior to installing the Central Designer software.</p> <p>For more information, see <b><i>Create the database and tablespaces</i></b> (on page 24).</p>
<input type="checkbox"/> 5 On the database server, configure the Open Cursors setting.	For more information, see <b><i>Configuring the Open Cursors setting for a database instance</i></b> (on page 25).
<input type="checkbox"/> 6 On the database server, configure the Cursor Sharing setting.	For more information, see <b><i>Configuring the Cursor Sharing setting for a database instance</i></b> (on page 25).
<input type="checkbox"/> 7 On the database server, grant the appropriate rights to database administrators.	For more information, see <b><i>Required rights for database administrators</i></b> (on page 26).
<input type="checkbox"/> 8 Configure the application server for optimal performance.	For Oracle recommendations, see <b><i>Configuring the application server for optimal performance</i></b> (on page 18).
<input type="checkbox"/> 9 On the database server, configure the listener to accept connections for the new database.	<b><i>Configuring the listener to accept connections for the new database</i></b> (on page 24).
<input type="checkbox"/> 10 Determine the security level to be used for communication between the client applications and the application server.	<b><i>Securing communication with Secure Sockets Layer (SSL)</i></b> (on page 59).

<input checked="" type="checkbox"/> Task	Information
<input type="checkbox"/> 11 Determine if you will implement a web farm.	<i>Web farm capabilities</i> (on page 4).
<input type="checkbox"/> 12 Increase the default value of the MS DTC timeout on the application server.	<i>Increasing the Microsoft Distributed Transaction Coordinator timeout</i> (on page 19).
<input type="checkbox"/> 13 Monitor the tablespace in the database.	If the tablespace becomes full, expand the tablespace by adding another data file.
<input type="checkbox"/> 14 Make sure that the following services are running: <ul style="list-style-type: none"> <li>• IIS Admin Service</li> <li>• World Wide Web Publishing Service</li> </ul>	<p>If the services are not running, the installation fails.</p> <p>The IIS Admin Service does not have to run for the duration of the installation. However, you must start it before you click the Next button on the Copying Files screen.</p> <p><b>Note:</b> Do not use the <b>iisreset</b> command from the MMC or a command prompt after the installation or upgrade completes, or the IIS settings that were set by the installer are lost. Instead, use the <b>net start</b> command to start the services.</p>
<input type="checkbox"/> 15 Install a certificate for signing web service authorizations.	<i>Installing a certificate for signing web service authorizations</i> (on page 12).
<input type="checkbox"/> 16 Install the application server.	<i>Installing the Central Designer application server</i> (on page 34).
<input type="checkbox"/> 17 Verify the installation of the application server.	<i>Verifying the installation of the application server</i> (on page 40).

## Checklist—Planning the client installations

Use the following checklist to help plan the installations of the client applications.

The Central Designer and Central Designer Administrator applications are ClickOnce applications. You start a ClickOnce application by clicking a link from an Internet Explorer window.

When you click a link for either application, the Central Designer server checks whether the release that is installed on the server matches the files that are cached on your computer:

- If the server has been newly installed or has been upgraded after your last logon, the files that are necessary to run the application are cached on your computer, and then are used to open the application.
- If the server has not been updated since your last logon, the cached files on your computer are used to open the application.

<input checked="" type="checkbox"/> Task	Information
<input type="checkbox"/> 1 Make sure all system requirements, including .NET Framework requirements, have been met for the client computers.	<ul style="list-style-type: none"> <li>• <i>System requirements: Client computers</i> in the <i>Release Notes</i>.</li> <li>• <b><i>Verifying that the correct version of Microsoft .NET Framework is installed</i></b> (on page 14).</li> </ul>
<input type="checkbox"/> 2 (Optional; this step is informational only.) Check whether the Microsoft Internet Explorer browser uses a proxy server to connect to the Internet. The Central Designer software uses the same proxy server.	<b><i>Viewing Internet Explorer proxy settings</i></b> (on page 15).
<input type="checkbox"/> 3 Make sure the clocks on the application server computer and client computers are synchronized.	<b><i>Synchronizing clocks on server and client computers</i></b> (on page 16).
<input type="checkbox"/> 4 Start the client applications.	<ul style="list-style-type: none"> <li>• <b><i>Starting the Central Designer client</i></b> (on page 41).</li> <li>• <b><i>Starting the Central Designer Administrator client</i></b> (on page 42).</li> </ul>

# Planning your installation

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# Installing a certificate for signing web service authorizations

On each Central Designer application server, an administrator must install the certificate that is used for signing web service authorizations to the **LOCAL\_MACHINE\MY** store directory and make it usable by the user who runs the ASP.NET worker process (by default, the **NETWORK\_SERVICE** user).

You must also grant this user Full Control rights to the private key for the certificate.

The certificate and each certificate in the certification path must be 1024 bytes. For information about converting an existing certificate, see the Microsoft support web site.

To install the certificate:

- 1 Open the Microsoft Management console:
  - a Open a Command Prompt window.
  - b Type **mmc**.
- 2 Select **File > Add/Remove Snap-in**.

The Add or Remove Snap-ins dialog box appears.
- 3 In the list of available snap-ins, select **Certificates**.
- 4 Click **Add**.

The Add dialog box appears.
- 5 Click **Computer account**.
- 6 Click **Next**.
- 7 Click **Local Computer**.
- 8 Click **Finish**.
- 9 Click **OK**.
- 10 In the Microsoft Management console, in the Console Root tree, select **Certificates (Local Computer)**.
- 11 In the Logical Store Name field, right-click the **Personal** folder.
- 12 Select **All Tasks > Import**.

The Certificate Import Wizard appears.
- 13 Click **Next**.
- 14 Click **Browse**, and select the PFX file provided by the certificate vendor.

You are prompted for a password.
- 15 Type the password for the PFX file.
- 16 Click **Next** to accept the default options for the remaining dialog boxes.

17 Click **Finish**.

The new certificate appears in the displayed list.

18 Right-click the certificate, and select **All Tasks > Manage Private Keys**.

19 Add the ASP.NET worker process to the list and give the user full control.

- By default, for Windows 2003, the user is NETWORK\_SERVICE.
- By default, for Windows 2008 and Windows 7, the user is IIS AppPool\DefaultAppPool.

20 Click **OK**.

## Verifying that the correct version of Microsoft .NET Framework is installed

For information about the required versions of Microsoft .NET Framework, see *Hardware and software requirements* in the *Release Notes*.

**Note:** If you have a version of .NET Framework prior to the required version for this release, you do not need to uninstall it before installing the required version.

- To find .NET Framework versions by viewing the registry:
  - 1 On the Start menu, click **Run**.
  - 2 In the Open field, type **regedit.exe**.
  - 3 Click **OK**.
  - 4 In the Registry Editor, go to **HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\NET Framework Setup\NDP**.

The installed versions are listed under the NDP subkey.

If .NET Framework is installed, the folder contains folders whose names begin with v, followed by the .NET Framework version number. For example:

- **v1.0.3705**—indicates that .NET Framework 1.0 is installed.
- **v1.1.4322**—indicates that .NET Framework 1.1 is installed.
- **v2.0.50727**—indicates that .NET Framework 2.0 is installed.
- **v2.0.50727.1433**—indicates that .NET Framework 2.0 SP1 is installed.
- **v3.5**—indicates that .NET Framework 3.5 SP1 is installed.
- **v4.0**—indicates that .NET Framework 4.0 is installed.

For more information, see the Microsoft documentation.

- To find .NET Framework versions by using Windows Explorer, paste the following text into the Windows Explorer address bar:

**%systemroot%\Microsoft.NET\Framework.**

If .NET Framework is installed, the folder contains folders listing the installed versions.

- If a required version of .NET Framework is not installed, install it.

**Note:** If you are using a Windows 2003 operating system, you must install .NET Framework 3.5 SP1 and 4.0.



## Viewing Internet Explorer proxy settings

- 1 Open Internet Explorer, and select **Tools > Internet Options**.
- 2 Select the **Connections** tab, and click one of the following:
  - **If you are connecting via a local area network**—Click the **LAN Settings** button.
  - **If you are connecting via a network connection**—Click the **Settings** button.

The proxy settings appear in the dialog box.

## Synchronizing clocks on server and client computers

The clocks on the client computers and server computers are not required to be in the same time zone, but they must be no more than 24 hours apart relative to the Coordinated Universal Time (UTC). Oracle recommends that the clocks be no more than 10 minutes apart.

## Hardware networking switches

Some hardware networking switches change the incoming URL before passing the request to the Central Designer server. For example, if the address typed during a client installation is **https://abc.com**, a switch might change the URL in the following ways:

- A switch that performs hardware SSL processing might change the URL to **http://abc.com**.
- A switch that performs load balancing might change the URL to **http://PhysicalServer1**.

When the application server is installed in an environment that includes a hardware networking switch, the URL that you type for the **Web server URL root** field must match the URL that the networking switch uses to address the application server. From the previous examples, the required URLs must be:

- In the first example, **http://abc.com**.
- In the second example, **http://PhysicalServer1**.

**Note:** The application server must be able to use the address that you type for the Web server URL root field to address itself.

# Configuring the application server for optimal performance

Oracle recommends performing the following modifications on the Central Designer application server to optimize performance.

## Use the /3GB startup switch feature for a 32-bit Microsoft Windows server

Using this startup switch, you can specify allocation details for memory and memory address space usage. Additionally, the switch allows the server to access 3 GB of address space instead of 2 GB, which is the default maximum for a 32-bit operating system.

Do not set the startup switch for a 64-bit Microsoft Windows server.

For more information, see the Microsoft documentation.

## Configure the worker process recycling settings for Windows 2003

- 1 On the application server computer, select **Start > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- 2 Expand the tree for the local computer and expand **Application Pools**.
- 3 Right-click **DefaultAppPool** and select **Properties**.
- 4 Select the **Recycling** tab.
- 5 Configure the following settings:
  - Deselect **Recycle worker processes (in minutes)**.
  - Leave the **Recycle worker processes at the following times** field blank.
  - Specify the value of the **Maximum virtual memory (in megabytes)**:  
For a 64-bit operating system, the maximum recommended value is 1500.  
For a 32-bit operating system:
    - For a /3GB switch, the maximum recommended value is 1500.
    - For a /3GB switch, the maximum recommended value is 900.

## Configure the worker process recycling settings for Windows 2008

- 1 On the application server computer, select **Start > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- 2 Expand the tree for the local computer and select **Application Pools**.
- 3 Right-click **DefaultAppPool** and select **Recycling**.
- 4 Configure the following settings:
  - Verify that only **Regular time intervals (in minutes)** is selected.
  - Verify that a value of **1740** is entered for that setting.

## Configure the worker process health settings for Windows 2003

- 1 On the application server computer, select **Start > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- 2 Expand the tree for the local computer and expand **Application Pools**.
- 3 Right-click **DefaultAppPool** and select **Properties**.
- 4 Select the **Health** tab.
- 5 Under **Shutdown time limit**, set **Worker process must shutdown within (time in seconds)** to match the timeout for the client application. (The default is 1200 seconds.)

## Configure the worker process health settings for Windows 2008

- 1 On the application server computer, select **Start > Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
- 2 Expand the tree for the local computer and select **Application Pools**.
- 3 Right-click **DefaultAppPool** and select **Advanced Settings**.
- 4 Under **Process Model**, set **Shutdown time limit (seconds)** to match the timeout for the client application. (The default is 1200 seconds.)

## Increase the default Microsoft Distributed Transaction Coordinator timeout

Oracle recommends that you increase the Microsoft Distributed Transaction Coordinator (MS DTC) timeout because the default Windows timeout setting of 60 seconds might be insufficient for some Central Designer processes.

- 1 Select **Start > Control Panel > Administrative Tools > Component Services**.
- 2 Open **Component Services > Computers**.
- 3 Right-click **My Computer**, and select **Properties**.
- 4 Select the **Options** tab.
- 5 Change the value of the **Transaction timeout (seconds)** field to **3600**. (The default is 60.)
- 6 Click **OK**.
- 7 Open **Control Panel > Services**.
- 8 Stop and restart all IIS services.

## Use the performance tuning capabilities that are available with the Oracle database software

Open the Automatic Database Diagnostic Monitor (ADDM) from the Database Control home page or from Advisor Central.

This tool helps you diagnose problems, identify their causes, and make recommendations.

About acting on ADDM recommendations:

- Make configuration changes to the database or operating system as necessary.
- The SQL Tuning Advisor might recommend rewriting some SQL statements. However, the SQL statements cannot be rewritten.
- Add database indexes as needed.

**Caution:** Take note of all new indexes. Before upgrading, you must drop them to ensure that they do not cause conflicts with new indexes that have been added to the product. After the upgrade is finished, you can add the indexes back.

**Note:** Contact Oracle Global Support to forward SQL statement recommendations or request index changes in the product.

The most common configuration recommendations from ADDM are:

- SGA\_TARGET
- PGA\_AGGREGATE\_TARGET
- DB\_FILE\_MULTIBLOCK\_READ\_COUNT
  - Reset to zero instead of using an explicit value.
  - Oracle automatically manages this parameter value if it is set to zero.

For more information, see the Oracle database software documentation.

## CHAPTER 4

# Preparing the database server

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## Prepare the database server

Before installing the Central Designer software, you must:

- Install and configure the Oracle database software on the database server.
- Create the necessary database instance and tablespaces.

### Install the Oracle database software on the database server

After the database server requirements are met, you can install the Oracle database software. Use the Oracle database software installation documentation as needed. For more information about required Oracle database software versions, in the *Release Notes*, see:

- System requirements: Application servers.
- System requirements: Database server.
- System requirements: Client computers.

**Note:** If the application server and database server are on the same computer, you must install the Oracle Server software and Oracle Client software in the same home, or the Central Designer server installation will not work.



## Mandatory configuration

Most of the default Oracle settings can be used for the Central Designer database. However, the following Oracle configuration must be used.

Page	Option	Value
Database Components	Oracle Text, a standard database component.	Selected.  <b>Note:</b> The Oracle database software installation requires that you install Oracle Data Mining if you install Oracle Text. If you do not want to install Oracle Data Mining, you can install Oracle Text manually after completing the Oracle database installation. For more information, see the following My Oracle Support note:  <b>Note: 280713.1 Manual installation, deinstallation of Oracle Text 10gR1 and 10gR2.</b>
	Oracle Java Virtual Machine (JVM)	Selected.
Character Sets	Database Character Set	AL32UTF8 - Unicode 4.0 UTF universal character set, UTF-8 compliant.
	National Character Set	AL16UTF16 - Unicode UTF-16 universal character set.
Parameters	CURSOR_SHARING parameter	<ul style="list-style-type: none"> <li>For Oracle 10g—<b>SIMILAR</b></li> <li>For Oracle 11g—<b>FORCE</b></li> </ul>
	OPEN_CURSORS parameter	<ul style="list-style-type: none"> <li>For Oracle 10g—<b>300</b></li> <li>For Oracle 11g—<b>500</b></li> </ul>

### Additional configuration information

In production databases at Oracle, the DB\_BLOCK\_SIZE Oracle parameter is set to 8192 bytes.

## Create the database and tablespaces

After you install the Oracle database software, create the database instance and tablespaces. Make sure the Oracle server has sufficient space to accommodate the new tablespaces. The Central Designer software uses the following tablespaces by default.

Tablespace	Description	Minimum size
DESIGNER	Main data tablespace	100 MB
		<b>Note:</b> Depending on usage, you might need to increase the size.
DESIGNER_BIGINDEX	Index tablespace	10 MB with 16k (16384 bytes) block size.
SYSTEM	Main data tablespace	500 MB
SYSAUX	Main data tablespace	250 MB
TEMP	Temporary tablespace	Always present in the Oracle database.
UNDOTBS1	Main data tablespace	200 MB

**Note:** The tablespace names provided are the default names. Any names can be used for the tablespaces.

If you use non-default names, you must specify them during the installation of the application server (by clicking Advanced on the Database Parameters page), so be sure you take note of them.

## Configuring the listener to accept connections for the new database

After installing the Oracle database software, you must configure the listener to accept connections for the new database. For more information, see the Oracle database software documentation.

## Configuring the Open Cursors setting for a database instance

When you create a database instance, you must set the Open Cursors setting correctly for your database version.

- For the Oracle database versions 10.2.0.4 and 10.2.0.5, set Open Cursors to **300**. This is the default setting for the Oracle 10g database versions.

**Note:** Oracle database version 10.2.0.4 no longer receives patch support.

- For the Oracle database version 11.2.0.2 or later, set Open Cursors to **500**.

The following SQL command changes the Open Cursors setting:

```
ALTER SYSTEM SET open_cursors=<Setting> SCOPE=BOTH;
```

where:

- **Setting**—300 or 500, based on the version of the Oracle database software in your environment.

**Note:** Before you upgrade, ensure that the Open Cursors parameter is correctly set.

## Configuring the Cursor Sharing setting for a database instance

When you create a database instance, you must set the Cursor Sharing setting properly for your database version.

- For the Oracle database versions 10.2.0.3, 10.2.0.4, and 10.2.0.5, set Cursor Sharing to **SIMILAR**.

**Note:** Oracle database version 10.2.0.4 no longer receives patch support.

- For the Oracle database version 11.2.0.2 or later, set Cursor Sharing to **FORCE**.

The following SQL command changes the Cursor Sharing setting:

```
ALTER SYSTEM SET cursor_sharing=<Setting> SCOPE=BOTH;
```

where:

- **Setting**—SIMILAR or FORCE, based on the version of the Oracle database software in your environment.

Before you upgrade, ensure that the Cursor Sharing parameter is correctly set.

## Required rights for database administrators

During the installation of the Central Designer application server, you are prompted to specify user names and passwords for:

- Database Administrator
- Database User

The installation uses the Database Administrator user name and password to create the Database User and grant that user rights to perform tasks for the Central Designer application. The default name for the Database Administrator is system, but it can be any user that you assign the rights to perform the following tasks.

Task	SQL	Automatically executed for
Create the Database User.	<b>CREATE USER &amp;1</b> <b>IDENTIFIED BY &amp;2</b>  <b>DEFAULT TABLESPACE</b> <b>&amp;3;</b>  <b>GRANT CONNECT TO</b> <b>&amp;1;</b>  <b>GRANT RESOURCE TO</b> <b>&amp;1;</b>  <b>GRANT CREATE VIEW</b> <b>TO &amp;1;</b>	All supported Oracle database software versions.
Allow the Database User to create function indexes.	<b>GRANT QUERY REWRITE</b> <b>TO &amp;1;</b>  <b>GRANT CREATE</b> <b>SYNONYM TO &amp;1;</b>  <b>EXIT;</b>	All supported Oracle database software versions.
Allow the Database User to execute jobs.	<b>GRANT EXECUTE on</b> <b>SYS.DBMS_JOB to &amp;1;</b>  <b>COMMIT;</b>  <b>EXIT;</b>	<ul style="list-style-type: none"> <li>• Oracle 10.2.0.3</li> <li>• Oracle 10.2.0.4</li> </ul>

**Note:** In the Oracle database software versions 10.2.0.5 and 11.2.0.2 or later, the Database Administrator user does not have the right to allow the Database User to execute jobs. For more information on how to assign the Database Administrator the proper rights, see *For Oracle 11.2.0.2 and earlier—Granting the EXECUTE on SYS.DMS\_JOB right to the database administrator* (on page 27), *For Oracle 11.2.0.3—Granting the EXECUTE on SYS.DBMS\_JOB right to the database administrator* (on page 28), or *For Oracle 11.2.0.4—Granting the EXECUTE on SYS.DBMS\_JOB right to the database administrator* (on page 29).

## For Oracle 11.2.0.2 and earlier—Granting the EXECUTE on SYS.DBMS\_JOB right to the database administrator

The Database Administrator user in the Oracle 11g database software does not have the right to allow the Database User to execute jobs. To grant the appropriate right to the Database Administrator, do the following:

- Run the following SQL commands as a Database Super User.

```
GRANT EXECUTE on SYS.DBMS_JOB to <Database Administrator user name> WITH  
GRANT OPTION;
```

```
COMMIT;
```

```
EXIT;
```

where:

- **Database Administrator user name**—System, or the user name you assigned to the Database Administrator user.

You can then run the following SQL commands as the Database Administrator user you referenced in the previous step to assign a user the right to execute jobs:

```
GRANT EXECUTE on SYS.DBMS_JOB to &1;
```

```
COMMIT;
```

```
EXIT;
```

**Note:** The Oracle 10g database software automatically runs these SQL commands during installation.

## For Oracle 11.2.0.3—Granting the EXECUTE on SYS.DBMS\_JOB right to the database administrator

The Database Administrator user in the Oracle 11g database software does not have the right to allow the Database User to execute jobs.

Due to a known issue in the 11.2.0.3 database software version, to grant the appropriate right to the Database Administrator, you must grant the right to execute jobs, revoke the right, and grant the right again.

To grant the Database User the right to execute jobs, run the following SQL commands as a Database Super User:

- 1 **GRANT EXECUTE on SYS.DBMS\_JOB to <Database Administrator user name> WITH GRANT OPTION;**

**COMMIT;**

**EXIT;**

where:

- **Database Administrator user name**—System, or the user name you assigned to the Database Administrator user.

- 2 **REVOKE EXECUTE on SYS.DBMS\_JOB from <Database Administrator user name>**

**COMMIT;**

**EXIT;**

where:

- **Database Administrator user name**—System, or the user name you assigned to the Database Administrator user.

- 3 **GRANT EXECUTE on SYS.DBMS\_JOB to <Database Administrator user name> WITH GRANT OPTION;**

**COMMIT;**

**EXIT;**

where:

- **Database Administrator user name**—System, or the user name you assigned to the Database Administrator user.

You can then run the following SQL commands as the Database Administrator user you referenced in the previous step to assign a user the right to execute jobs:

**GRANT EXECUTE on SYS.DBMS\_JOB to &1;**

**COMMIT;**

**EXIT;**

**Note:** The Oracle 10g database software automatically runs these SQL commands during installation.

## For Oracle 11.2.0.4—Granting the EXECUTE on SYS.DBMS\_JOB right to the database administrator

The Database Administrator user in the Oracle 11g database software does not have the right to allow the Database User to execute jobs. To grant the appropriate right to the Database Administrator, do the following:

- Run the following SQL commands as a Database Super User.

```
GRANT EXECUTE on SYS.DBMS_JOB to <Database Administrator user name> WITH  
GRANT OPTION;
```

```
COMMIT;
```

```
EXIT;
```

where:

- **Database Administrator user name**—System, or the user name you assigned to the Database Administrator user.

You can then run the following SQL commands as the Database Administrator user you referenced in the previous step to assign a user the right to execute jobs:

```
GRANT EXECUTE on SYS.DBMS_JOB to &1;
```

```
COMMIT;
```

```
EXIT;
```

**Note:** The Oracle 10g database software automatically runs these SQL commands during installation.

## Sample SQL

The following SQL commands are not run by the installation but show an example of what a database administrator needs to do to create the tablespaces. Database administrators must set up the tablespaces before installing the Central Designer software. Administrators should note the setting of the cache size before creating the \_BIGINDEX tablespace.

```
CREATE TABLESPACE designer
```

```
LOGGING
```

```
DATAFILE 'D:\Oracle\oradata\dev1\DESIGNER.ora' SIZE 400M
```

```
AUTOEXTEND ON NEXT 1M;
```

```
ALTER SYSTEM SET db_16k_cache_size = 80M;
```

```
CREATE TABLESPACE "designer_bigindex"
```

```
LOGGING
```

```
DATAFILE 'D:\Oracle\oradata\dev1\DESIGNER_BIGINDEX.ora' SIZE 10M  
REUSE
```

```
BLOCKSIZE 16384
```

```
EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO;
```





# Installing and uninstalling the software

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Starting the Central Designer client application.....41

Starting the Central Designer Administrator client application .....42

## Before you begin

Before beginning the installation, check the Oracle Software Delivery Cloud (<https://edelivery.oracle.com>) or the Download Center (<https://extranet.phaseforward.com>) for the latest patchsets and patches, as well as the accompanying *Release Notes* and *Known Issues* documents, and the latest versions of the documentation.

# Overview of installation and configuration

Before you start your installation, plan your work:

- *Checklist—Planning the server installation* (on page 8).
- *Checklist—Planning the client installations* (on page 10).

## Overview of installing the application and database servers

Step	For more information, see
1 Install the Central Designer application server.	<ul style="list-style-type: none"> <li>• <i>Preparing the database server</i> (on page 21).</li> <li>• <i>Installing the Central Designer application server</i> (on page 34).</li> </ul>
2 Verify the installations.	<ul style="list-style-type: none"> <li>• <i>Verifying the installation of the application server</i> (on page 40).</li> </ul>

## Overview of uninstalling

Step	For more information, see
1 Uninstall the application server.	<ul style="list-style-type: none"> <li>• <i>Uninstalling the application server</i> (on page 40).</li> </ul>

**Note:** The client applications are ClickOnce applications and are therefore not installed on users' computers. Therefore, you cannot uninstall the client applications.

## Installing the Central Designer application server

- 1 Locate the **setup.exe** program.

The setup.exe program is available on the Download Center or the Oracle Software Delivery Cloud.

- 2 Double-click **setup.exe**.

The InstallShield Wizard prepares to install the application server.

A welcome page appears.

- 3 Click **Next**.

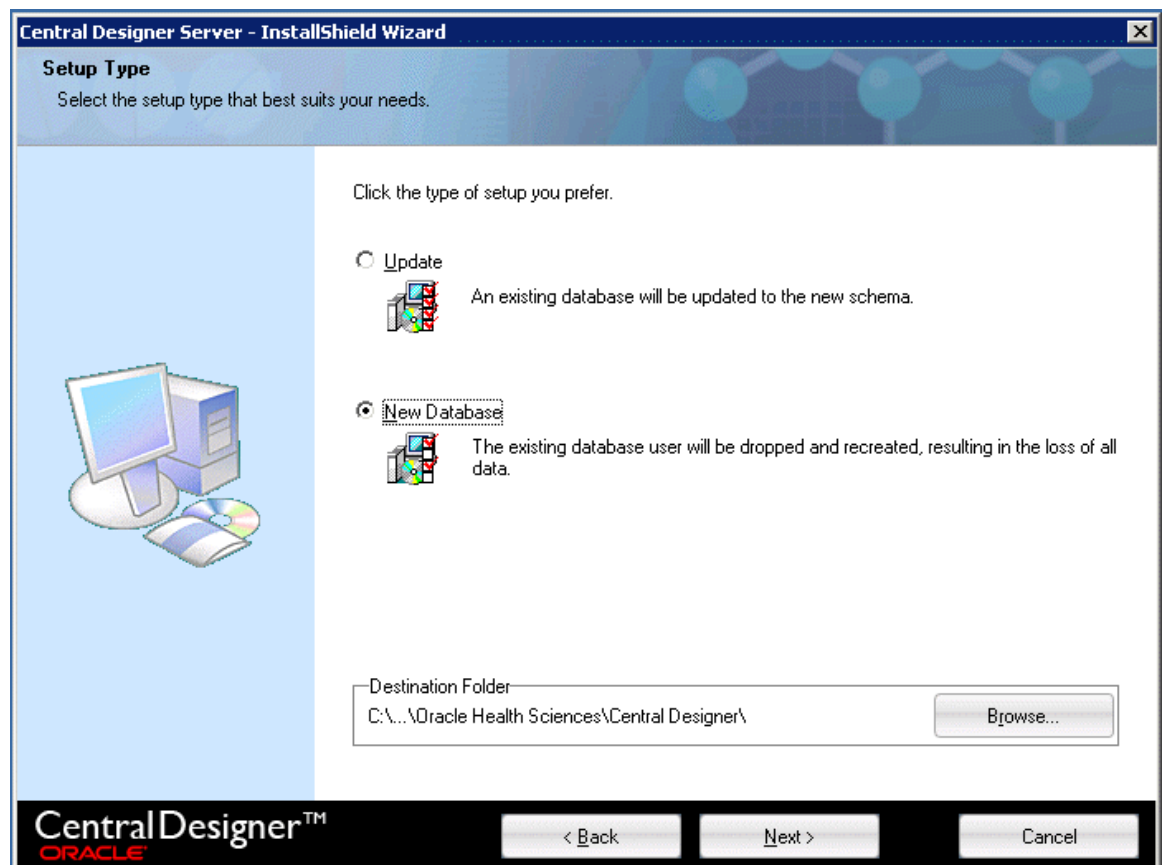
The Customer Information page appears.

- 4 Fill in the fields in the page with the following information:

- **User Name**—Your name.
- **Company Name**—The name of your company.
- **Company URL**—A unique identifier for your company data, typically your company URL (for example, <http://www.mycompany.com>).

- 5 Click **Next**.

The following page appears.



- 6 Select **New Database**.

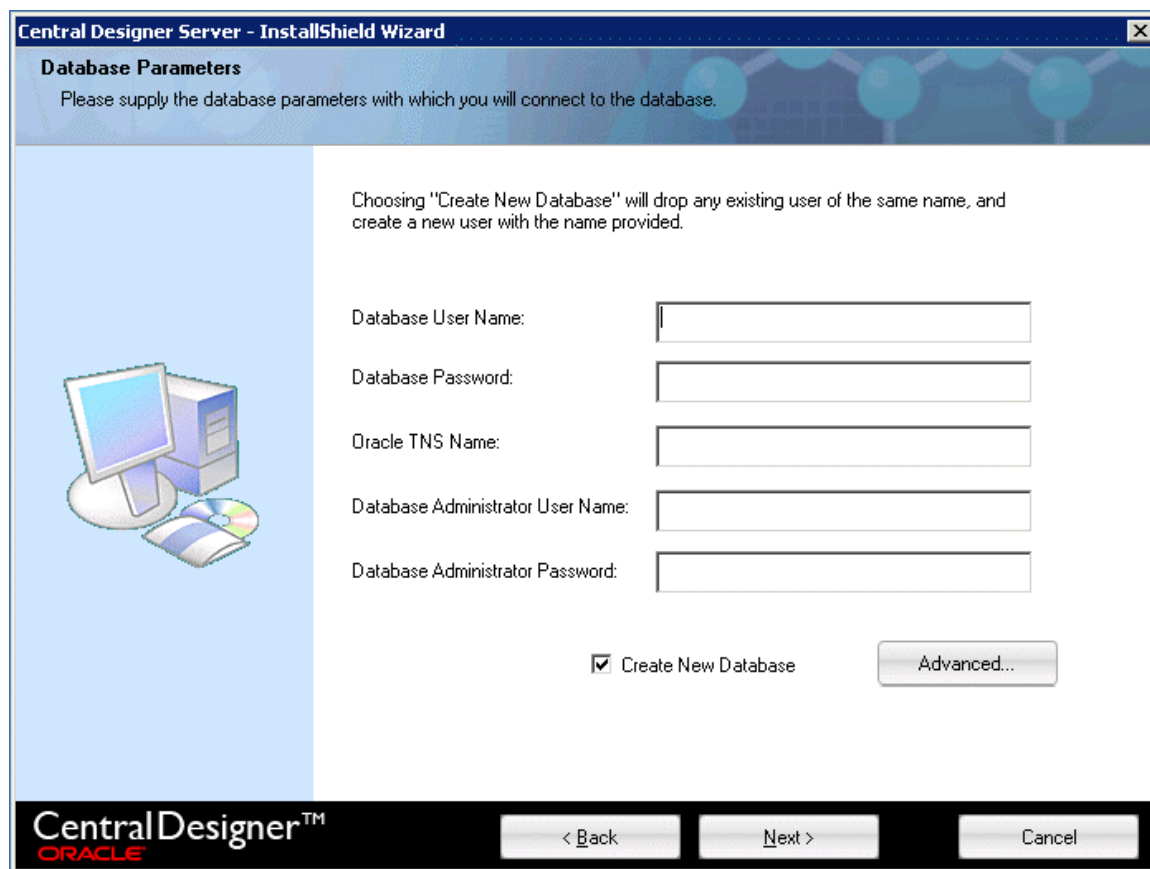
**Note:** If you are installing the second or higher server in a web farm, do not select New Database. You must select Update.

- 7 In the **Destination Folder** area, specify the destination location for the installation. By default, the installation wizard installs the software in the <PROGRAMFILES\_DIR>\Oracle Health Sciences\Central Designer\ folder, where <PROGRAMFILES\_DIR> is a system setting that is usually C:/Program Files. If you want to install to another location, click **Browse**, and select the location.

**Note:** The instructions, paths, and Start Menu navigation in this guide assume you are installing to the default location. Oracle strongly recommends that you install the software to the default location.

- 8 Click **Next**.

The following page appears.



The screenshot shows the 'Central Designer Server - InstallShield Wizard' window. The title bar reads 'Central Designer Server - InstallShield Wizard'. The main window has a blue header with the text 'Database Parameters' and a sub-header 'Please supply the database parameters with which you will connect to the database.' On the left side, there is a graphic of a computer monitor, a tower unit, and a CD-ROM. The main area contains the following text: 'Choosing "Create New Database" will drop any existing user of the same name, and create a new user with the name provided.' Below this text are five input fields: 'Database User Name:', 'Database Password:', 'Oracle TNS Name:', 'Database Administrator User Name:', and 'Database Administrator Password:'. At the bottom right, there is a checkbox labeled 'Create New Database' which is checked, and an 'Advanced...' button. The bottom of the window features the 'Central Designer™ ORACLE' logo on the left and three buttons: '< Back', 'Next >', and 'Cancel'.

- 9 Fill in the fields in the page as follows.

Field	Description
Database User Name	The Oracle user name for the database user.
Database Password	The password for the database user.
Oracle TNS Name	Alias from TNSnames.ora file. This TNS name is used to connect to the database instance.
Database Administrator User Name	<p>The Oracle user account for the database administrator.</p> <p>This account is used to create the database user.</p> <p><b>Note:</b> The user name cannot be a SYSDBA user account.</p>
Database Administrator Password	The password for the database administrator.
Create New Database	<p>Indicate whether to create a new database schema during the installation.</p> <p><b>Caution:</b> If you have an existing database schema and you select <b>Create New Database</b>, all existing information in your current database schema will be <b>deleted</b>.</p>

**Note:** Do not use Oracle reserved words for user names or passwords.

- 10 If a new database was created and tablespaces were created with non-default names, you must specify the names of the tablespaces.
- Click **Advanced**.  
The Advanced Database Settings page appears.
  - Fill in the fields with the correct information, according to the following table.
  - Click **OK** to return to the **Database Parameters** page.

Field	Description
Default Tablespace for new user	The first tablespace for the tables of the schema owner.
Large (16K) Tablespace for new user	A second tablespace with a block size of at least 16K.
Temp Tablespace for new user	The temporary tablespace for the tables of the schema owner.

**Note:** The tablespaces that you specify must already exist. The installation does not create tablespaces.

- 11 Click **Next**.

The following page appears.

- 12 Type the TCP/IP port number that the job service will use. The port must be unused. In most cases, you can use the default value.

**Note:** If you are installing the server as part of a web farm, all of the servers can use the same port number, as long as the port is unused.

- 13 Optionally, to configure the Central Designer software to support a web farm, select **Make this server part of a web farm**. A web farm setup allows you to install the Central Designer server software on multiple application server computers. The installation is the same for all of the servers, and you must select this option for all servers in the web farm. For more information, see *Web farm capabilities* (on page 4).

After you select the checkbox, the installation checks the database to see if a primary Job Scheduler has been specified. Additional options appear, depending on whether you are installing the first or second (or higher) server.

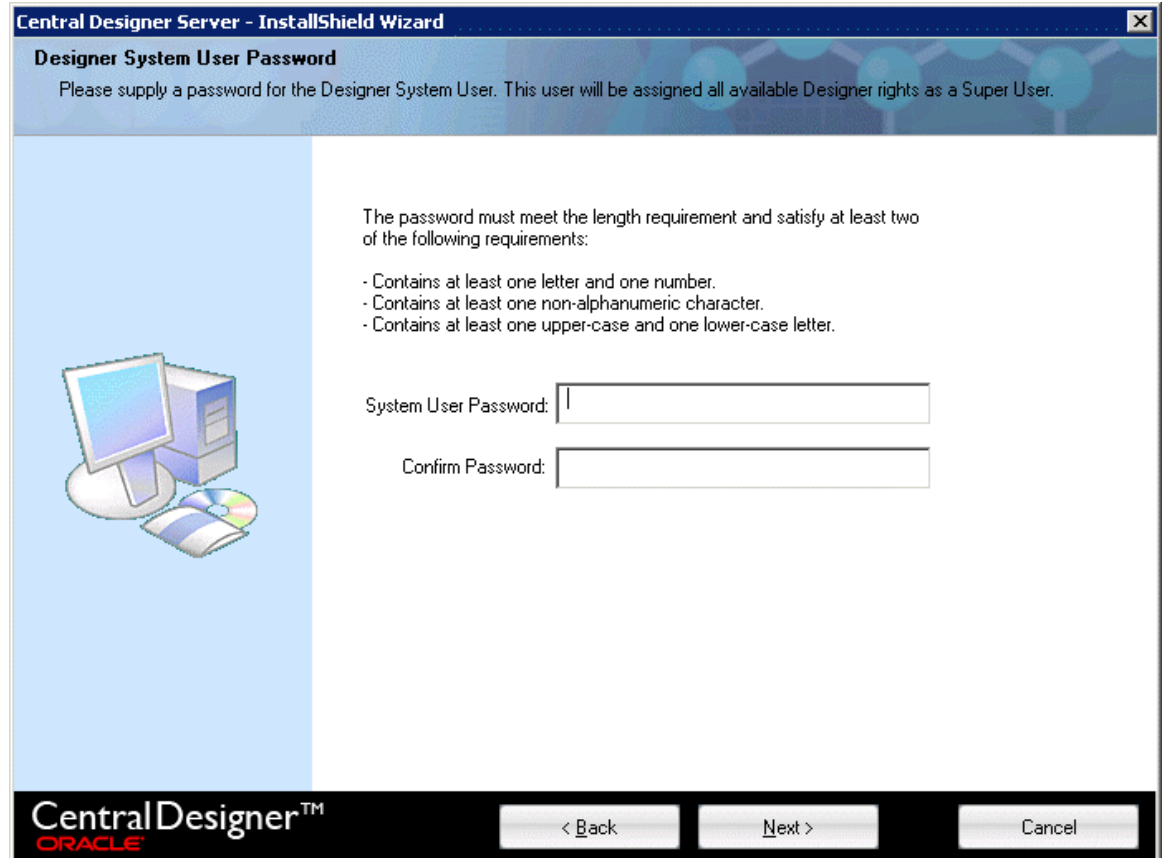
- If this installation is the first server in the web farm, the primary Job Scheduler has not been set yet. The installation automatically sets the Job Scheduler service on the server computer as the primary Job Scheduler. If you install additional application servers, you can change the primary Job Scheduler during the installations.
- If this installation is the second or higher server in the web farm, the primary Job Scheduler service has already been set, and the name of the computer that runs the primary Job Scheduler appears. To change the primary Job Scheduler, select **Make this server's Job Scheduler the primary**.

- 14 Specify a password for the Job Service user.

**Note:** Make sure that the user password meets the requirements listed on the page.

- 15 Click **Next**.

The following page appears.



- 16 Specify a password for the system user.

**Note:** Make sure that the user password meets the requirements listed on the page.

The Central Designer application installs the system user by default. You can configure the lockout time for the system user separately from all other users. By default, this user is assigned the superuser and DesignerAdministrator roles.

**Note:** The password that you specify for the system user is also used for the **archiveImporter** user. For more information about this user, see the *Administrator Guide*.

- 17 Click **Next**.
- 18 The Network Parameters page appears.



- 19 In the **Web server URL root** field, type the server address to which requests will come (for example, *http://ABCServer* or *https://ABCServer*). If you enabled the Secure Socket Layer (SSL), use *https*.

**Note:** When the application server is installed in an environment that includes a hardware networking switch, the URL that you type for the Web server URL root field must match the URL that the networking switch uses to address the application server. For more information, see *Hardware networking switches* (on page 17).

As you type in the Web server URL root field, the Public server URL root field is automatically updated with the same value. If you edit the value in the Public server URL root field, the field is no longer updated automatically when the Web server URL root field is updated.

- 20 Optionally, you can secure (encrypt and prevent tampering of) communications by using a Secure Sockets Layer (SSL). For more information, see *Securing communication with Secure Sockets Layer (SSL)* (on page 59).
- 21 Optionally, if the application server computer is behind a proxy that rewrites the request URLs, in the **Public server URL root** field, type the address that the client computer uses to access the application server (the public address of the server computer as seen by the client computer). This address will be typed as the address of the server computer during installation of the client applications.

If the value for the **Public server URL root** field does not need to be different from the **Web server URL root** field, make sure that the values in both fields match.

- 22 Click **Next**.

The Configure the ClickOnce client page appears.

- 23 In the Environment Name field, type the name for your Central Designer instance.

The environment name appears on the web page that you navigate to to start the Central Designer application.

- 24 Specify the certificate to use to sign web service authorizations:

- a Click **Choose Certificate**.

The Choose Certificate dialog box appears.

- b Select a certificate.

- c Click **OK**.

The **Issued to**, **Issuer**, **Expiration**, and **Friendly name** fields are populated.

**Note:** On each Central Designer application server, an administrator must install the certificate that is used for signing web service authentications to the **LOCAL\_MACHINE\MY** store directory and make it usable by the user who runs the ASP.NET worker process (by default, the NETWORK\_SERVICE user). For more information, see *Installing a certificate for signing web service authorizations* (on page 12).

- 25 Click **Next**.

The Start Copying Files page appears.

- 26 Review the installation settings. To change any settings, click **Back**. If you are satisfied with the settings, click **Next**.

The installation begins. The Setup Status page appears, showing the status of the installation.

When the installation is complete, the InstallShield Wizard Complete page appears.

- 27 Click **Finish**.

## Verifying the installation of the application server

- 1 Verify that the job service is installed and running:
  - a Open the **Control Panel**.
  - b Open **Administrative Tools > Services**.
  - c Verify that the **Oracle Central Designer Job Scheduler** service exists and is running.
- 2 Verify that the Web site has been added to the Internet Information Services (IIS) Manager directory:
  - a Open the **Control Panel**.
  - b Open **Administrative Tools > Computer Management**.
  - c Open **Services and Applications > Internet Information Services (IIS) Manager > Web Sites > Default Web Site**. Verify that **CentralDesigner** is listed in the virtual directories.
- 3 Review the **installer.log** file. This log contains messages that were generated during installation. It is available in the following location:

**\Program Files\Oracle Health Sciences\Central Designer**

## Uninstalling the application server

**Note:** For Central Designer environments that run on the Windows 7 or Windows 2008 operating system, stop the job scheduler and IIS services before you perform this procedure.

- 1 Open **Control Panel > Add or Remove Programs**.
- 2 Select **Central Designer Server**, and click **Change/Remove**.

A confirmation dialog box appears.
- 3 Click **Yes**.

The Setup Status page appears, informing you of the status of the uninstall.

The Uninstall Complete page appears.
- 4 Click **Finish**.
- 5 Delete the Central Designer directory.

## Starting the Central Designer client application

The client applications are ClickOnce applications and therefore do not need to be installed for you to start them.

- 1 Navigate to the following address:

`http://<server name>/CentralDesignerInstall`

where *<server name>* is the name of the application server computer.

- 2 Click the **Start Central Designer Client** link.

The installation begins. The installation might take some time.

After the installation is complete, the application opens, and you can log on.

## Starting the Central Designer Administrator client application

The client applications are ClickOnce applications and therefore do not need to be installed for you to start them.

- 1 Navigate to the following address:

`http://<server name>/CentralDesignerInstall`

where `<server name>` is the name of the application server computer.

- 2 Click the **Start Central Designer Administrator** link.

The installation begins. The installation might take some time.

After the installation is complete, the application opens, and you can log on.

# Upgrading the software to this release

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## About upgrading the application server

Use these instructions to upgrade to this release from any previous release.

When you upgrade, you must:

- Choose whether to update the existing database or create a new database.

**Caution: Unless you choose the update option, your existing database will be deleted.**

- Provide the database and user parameters that you entered when you created the new database and database user.
- Uninstall the previous version of the Central Designer software and delete the Central Designer directory.

### Time considerations

Because the upgrade updates every study in the database, upgrading from an earlier release could take some time, so plan your upgrade carefully. For example, Oracle expects that upgrading a database with 150 studies could take 10-15 hours or longer.

## Checklist—Planning an upgrade

☑	Task	Information
☐ 1	Export the Central Designer database user.	<p><b>Caution:</b> You <b>must</b> perform this step. If the upgrade is not successful, you might need to restore the database in order to attempt to install again.</p> <p>Depending on the size of the database, this process could take several hours.</p> <p><b>Note:</b> To export a user with the following information:</p> <ul style="list-style-type: none"> <li>• <b>User name</b>—designer</li> <li>• <b>Database</b>—db1_dev1</li> </ul> <p>Use the following command:</p> <pre>exp designer@db1_dev1 file=file_to_export.dmp buffer=99999</pre> <p><b>Note:</b> When you execute this command, you are prompted for the user password.</p>
☐ 2	Make sure that the Cursor Sharing setting for the database instance is set properly.	<b><i>Configuring the Cursor Sharing setting for a database instance</i></b> (on page 25).
☐ 3	Make sure that the following services are running: <ul style="list-style-type: none"> <li>• IIS Admin Service</li> <li>• World Wide Web Publishing Service</li> </ul>	<p>If the services are not running, the installation fails.</p> <p>The IIS Admin Service does not have to run for the duration of the installation. However, you must start it before you click the Next button on the Copying Files screen.</p> <p><b>Note:</b> Do not use the <b>iisreset</b> command from the MMC or a command prompt after the installation or upgrade completes, or the IIS settings that were set by the installer are lost. Instead, use the <b>net start</b> command to start the services.</p>
☐ 4	Configure the application server for optimal performance.	For Oracle recommendations, see <b><i>Configuring the application server for optimal performance</i></b> (on page 18).

☑	Task	Information
☐ 5	Unlock statistics for specific tables.	<p>Unlock statistics for the following tables:</p> <p>IC_OBJECT  IC_OBJECT_REVISIONS  IC_OBJECT_BACK_REFERENCES  IC_OBJECT_FORWARD_REFERENCES  IC_BLUEPRINT_OBJECT_MAP</p> <p>The upgrade process drops non-primary key indexes on the tables affected by the upgrade and recreates the indexes at the end of the process. If the index was originally defined with the COMPUTE STATISTICS clause, the recreation also attempts to COMPUTE STATISTICS. If statistics are locked, this process fails.</p>
☐ 6	<p>Make sure that:</p> <ul style="list-style-type: none"> <li>• The database UNDO_MANAGEMENT initialization parameter is set to AUTO.</li> <li>• The UNDO and TEMP tablespaces are set to autoextend.</li> </ul>	These settings are necessary for a successful upgrade.
☐ 7	If you added any new indexes to the database, you must drop them before upgrading to ensure that they do not cause conflicts with new indexes that have been added to the product.	After the upgrade is finished, you can add the indexes back.
☐ 8	Install a certificate for signing web service authentications.	<i>Installing a certificate for signing web service authorizations</i> (on page 12).
☐ 9	Export custom reports definitions from the Central Designer Administrator application.	<i>Upgrading custom reports definitions</i> (on page 50).
☐ 10	Update data mappings with the PhysicalMappingType property set to All.	<i>Updating data mappings with PhysicalMappingType set to All</i> (on page 48).
☐ 11	Uninstall the previous version of the Central Designer software, and delete the Central Designer directory.	<i>Uninstalling the application server</i> (on page 40).
☐ 12	Run the application server installation to upgrade the application server.	<i>Upgrading the application server</i> (on page 51).



<input checked="" type="checkbox"/> Task	Information
<input type="checkbox"/> 13 (Recommended) Run the <b>DetectStudiesWithUnitsWithSpaces.sql</b> file to determine if any studies contain unit names with spaces.	A validation check produces an error if a unit name contains a space. <i>Running the DetectStudiesWithUnitsWithSpaces.sql file</i> (on page 47).
<input type="checkbox"/> 14 If you dropped indexes from your database before upgrading, add them back in after you finish upgrading.	No additional information.
<input type="checkbox"/> 15 After you upgrade the Central Designer application server, recompile user-defined functions and sign and secure user-defined function assemblies as needed.	<i>Upgrading user-defined functions</i> (on page 49).
<input type="checkbox"/> 16 Re-import custom reports definitions.	<i>Upgrading custom reports definitions</i> (on page 50).
<input type="checkbox"/> 17 Inform users that they can resume using the client applications.	<i>Starting the Central Designer client application</i> (on page 41). <i>Starting the Central Designer Administrator client application</i> (on page 42).

## Running the DetectStudiesWithUnitsWithSpaces.sql file

A SQL script called **DetectStudiesWithUnitsWithSpaces.sql** generates a report that identifies the unit names with spaces and the study projects that contain unit names with spaces. Oracle recommends that you run this file because a validation check produces an error if a unit name contains a space.

Run the file after upgrading the application server. If the file finds units with spaces and study projects that use the units, perform the following steps:

- 1 In any affected study, run validation to determine the items that refer to the units with spaces in their names.
- 2 Modify the units file to remove the spaces from the unit names that appear in the output file.
- 3 Using **Control Panel > Administrative Tools > Services**, restart the Job Scheduler service (Oracle Central Designer Job Scheduler).
- 4 Restart the client applications.
- 5 In any affected study, modify the items to use the unit names that do not contain spaces.

The file and a readme file (DetectStudiesWithUnitsWithSpaces.Readme) are available on the product ISO in the **InstallSupport** directory.

## Updating data mappings with PhysicalMappingType set to All

If a study contains a data mapping for which PhysicalMappingType is set to All and you use the data mapping for both CDD and CIS, you must use the existing data mapping for one purpose only and create a new data mapping for the other purpose.

Because creating a new database for CDD is simpler, Oracle recommends using the existing data mapping for CIS and creating a new CDD data mapping and, if necessary, a new CDD database.

To modify the existing data mapping and create a new data mapping:

- 1 To determine whether your database contains any data mappings for which PhysicalMappingType is set to All, before you upgrade, run the **DetectStudiesWithPhysicalMappingAll.sql** script, which is available in the **InstallSupport** directory on the product ZIP file.
- 2 For each data mapping for which PhysicalMappingType is set to All, change the PhysicalMappingType property of the data mapping from All to CIS.  
  
The CIS data mapping continues to work as expected, and you are able to perform resynchs with the CIS database.
- 3 Create a new CDD data mapping.
- 4 Copy the data sets in the CIS data mapping and paste them into the CDD data mapping.  
  
The RefNames of the data sets and their data series are appended with \_1.
- 5 If you deployed the study to the InForm application in an earlier release:
  - Remove the \_1 appended text from the aliases of the data sets and data series in the CDD data mapping.  
  
**Caution:** Do not update the RefNames, or you will not be able to perform a CIS resynch after you deploy again to the InForm application.
- 6 Deploy the study to the InForm application.
- 7 Set up the new CDD database.

**Note:** After you create a new data mapping for either CDD or CIS, you cannot perform a resynch with either the CDD or CIS database. You must create a new database for the new data mapping type.

## Upgrading user-defined functions

If a study contains a user-defined function that performs a task such as reading from or writing to a file, accessing the database or the registry, making web service calls, running an external application, sending an email, or using the event log directly, the assembly for the user-defined function must be signed with a strong named signature that is valid and trusted in order for the function to work in the InForm application.

To ensure that the user-defined functions and assemblies in your study projects and library projects are secure, Oracle recommends that you sign user-defined function assemblies using a strong named, valid and trusted signature.

In addition, user-defined functions that use the Log4Net application must use the Central Designer Log4Net wrapper or must be recompiled to use Log4Net version 1.2.10.0. For more information about the Log4Net wrapper, see the *Rules Reference Guide*.

## Identifying user-defined functions and assemblies to update

To identify study and library projects that contain user-defined functions that need to be recompiled or assemblies that need to be secured and signed, run the

**ValidateCustomFunctionAssemblies.exe** file after you upgrade the application server.

**Note:** User-defined functions that refer to an unsupported Log4Net version must be recompiled or reconfigured to use the Central Designer Log4Net wrapper. For more information about the Log4Net wrapper, see the *Rules Reference Guide*.

- 1 Locate the ValidateCustomFunctionAssemblies.exe file on the product ISO in the **Unsupported tools** directory.
- 2 Copy the file and paste it to the bin folder in the directory in which you installed the Central Designer application.
- 3 In a command prompt window, type one of the following:
  - To view both Log4Net errors and errors related to signatures, type **ValidateCustomFunctionAssemblies**.
  - To view only Log4Net errors, type **ValidateCustomFunctionAssemblies L**.
  - To view only errors related to signatures, type **ValidateCustomFunctionAssemblies S**.
- 4 When prompted, specify the following:
  - **System username**—system
  - **System password**—Password that you specified on the Database System User Password page during the Central Designer application installation.
  - **Path for the output file, including file name**—Location in which to save the output file that lists the study and library projects with user-defined functions that must be updated. For example, **C:\Output\ValidateAssemblies.txt**.

A list of user-defined functions is generated.

## Securing and signing user-defined function assemblies

To secure and sign assemblies for user-defined functions, create a key pair, extract the public key, and place the key file on both the Central Designer and InForm application servers.

For specific instructions and information about creating and signing an assembly with a strong named signature, see the *Rules Reference Guide* and the documentation for the tool that you use to create the strong name.

## Recompiling user-defined function assemblies

The names of assemblies for user-defined functions have been changed as follows.

Pre-release 2.0 name	Name in release 2.0
PhaseForward.Designer.ExternalFunctions.dll	Oracle.Designer.ExternalFunctions.dll
PhaseForward.Designer.PrebuiltFunctions.dll	Oracle.Designer.PrebuiltFunctions.dll

The name change requires that you recompile all user-defined function assemblies after upgrading to release 2.0 of the Central Designer software.

- 1 When recompiling, replace references to PhaseForward.Designer.ExternalFunctions.dll with Oracle.Designer.ExternalFunctions.dll.
- 2 Additionally, recompile assemblies that reference PhaseForward.Designer.PrebuiltFunctions.dll, replacing the reference with Oracle.Designer.PrebuiltFunctions.dll.
- 3 Import each recompiled function assembly into any study or library that contains function objects that reference the assembly.

After you import, any other studies or libraries use the new versions of the assemblies when validating and creating deployment packages.

## Upgrading custom reports definitions

If you have defined custom reports, you must export the XML report definition file before performing an upgrade. After the upgrade, you must re-import the report definitions.

- 1 In the Central Designer Administrator application, export the XML report definition file. For more information, see the *Administrator Guide*.
- 2 Upgrade the Central Designer software.
- 3 Re-import the report definitions on each Central Designer application server:
  - a Copy the updated custom reports definition file to the following location, overwriting the existing file:

```
<designer_root>\
DBSchema\_Last\Datainstaller\DesignerReportsDefinitions.xml
```

where *<designer\_root>* is the root directory of the Central Designer installation.

- b From the *<designer\_root>\bin* directory, run the UpdateReports.bat file.

The UpdateReports.bat file updates the definitions of the custom reports in the database.

## Upgrading the application server

- 1 Export the Central Designer database user.

**Caution:** You must perform this step. If the upgrade is not successful, you might need to restore the database in order to attempt to install again.

To export a user with the following information:

- **User name**—designer
- **Database**—db1\_dev1

Use the following command:

```
exp designer@db1_dev1 file=file_to_export.dmp buffer=99999
```

**Note:** When you execute this command, you are prompted for the user password.

- 2 Locate the **setup.exe** program.

The setup.exe program is available on the Download Center or the Oracle Software Delivery Cloud.

- 3 Double-click **setup.exe**.

The InstallShield Wizard prepares to install the application server.

You are prompted to delete the previous installation of the application server.

- 4 Click **Yes**.

A welcome page appears.

- 5 Click **Next**.

A message about the upgrade appears.

- 6 Review the message, and click **Continue**.

The Customer Information page appears.

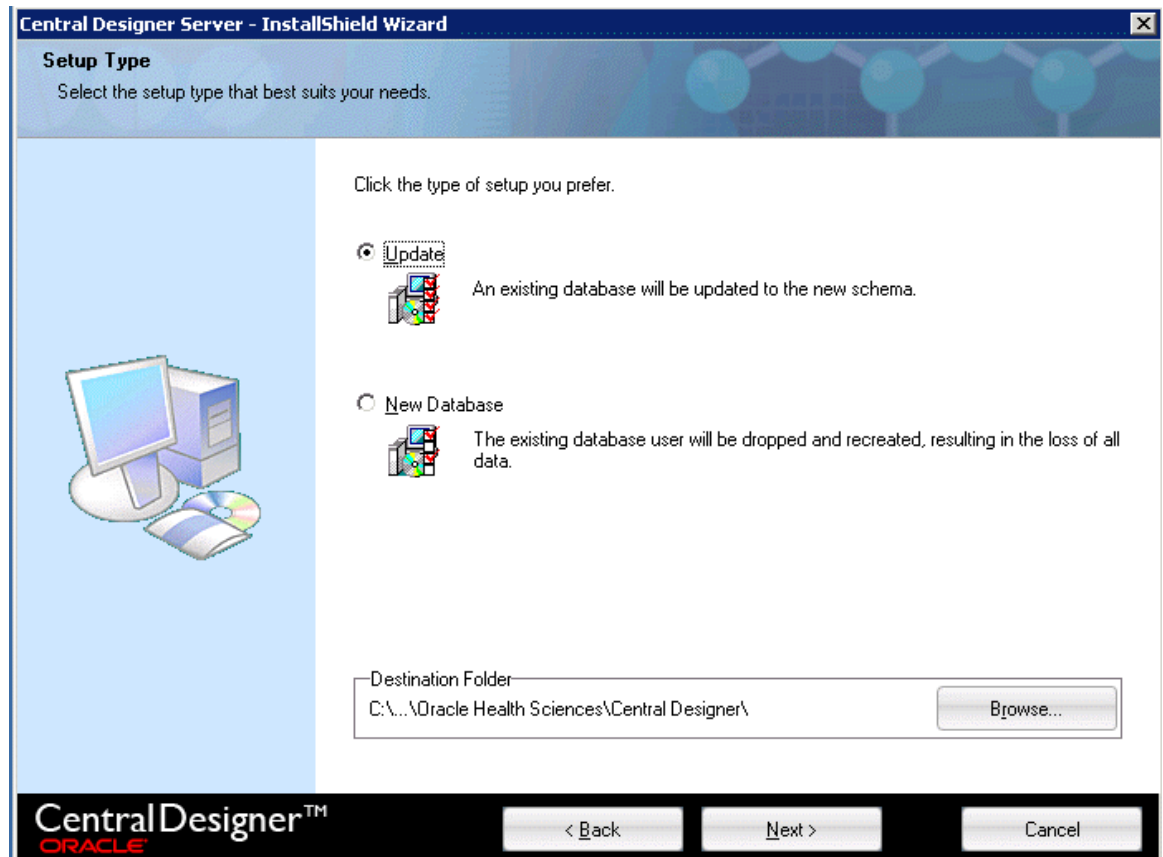
- 7 Fill in the fields. You should provide the same values that were entered during the initial installation of the application server.

- **User Name**—Your name.
- **Company Name**—The name of your company.
- **Company URL**—A unique identifier for your company data, typically your company URL (for example, <http://www.mycompany.com>).

**Note:** You must enter the company URL that you specified during the original Central Designer installation.

- 8 Click **Next**.

The following page appears.



- 9 Select **Update**.
- 10 In the **Destination Folder** area, specify the destination location for the installation. By default, the installation wizard installs the software in the `<PROGRAMFILES_DIR>\Oracle\Central Designer\` folder, where `<PROGRAMFILES_DIR>` is a system setting that is usually `C:/Program Files`. If you want to install to another location, click **Browse**, and select the location. You **must** choose the location to which the application server was initially installed.

**Note:** The instructions, paths, and Start Menu navigation in this guide assume you are installing to the default location. Oracle strongly recommends that you install the software to the default location.

- 11 Click **Next**.

The following page appears.

Because you are upgrading, the Create New Database checkbox is grayed out.

- 12 Fill in the following fields. You **must** provide the values that you created when you set the Oracle TNS name (typically done when you create the database) and the database user name and password (done when you created the Central Designer user in the new database).

Field	Database
Database User Name	The Oracle user name for the Central Designer database user.
Database Password	The password for the Central Designer database user.
Oracle TNS Name	Alias from TNSnames.ora file. This TNS name is used to connect to the Central Designer database instance.
Database Administrator User Name	<p>The Oracle user account for the database administrator.</p> <p>This account is used to create the database user.</p> <p>If you provide a different database administrator user name than in your original database, you must type the new user name.</p> <p><b>Note:</b> The user name cannot be a SYSDBA user account.</p>
Database Administrator Password	<p>The password for the database administrator.</p> <p>If you provide a different database administrator password than in your original database, you must type the new password.</p>

**Note:** Do not use Oracle reserved words for user names or passwords.

- 13 Click **Next**.

The following page appears.

- 14 Type the TCP/IP port number that the job service will use. The port must be unused. In most cases, you can use the default value.

**Note:** If you are installing the server as part of a web farm, all of the servers can use the same port number, as long as the port is unused.

- 15 Optionally, to configure the Central Designer software to support a web farm, select **Make this server part of a web farm**. A web farm setup allows you to install the Central Designer server software on multiple application server computers. The installation is the same for all of the servers, and you must select this option for all servers in the web farm. For more information, see *Web farm capabilities* (on page 4).

After you select the checkbox, the installation checks the database to see if a primary Job Scheduler has been specified. Additional options appear, depending on whether you are installing the first or second (or higher) server.

- If this installation is the first server in the web farm, the primary Job Scheduler has not been set yet. The installation automatically sets the Job Scheduler service on the server computer as the primary Job Scheduler. If you install additional application servers, you can change the primary Job Scheduler during the installations.
- If this installation is the second or higher server in the web farm, the primary Job Scheduler service has already been set, and the name of the computer that runs the primary Job Scheduler appears. To change the primary Job Scheduler, select **Make this server's Job Scheduler the primary**.



- 16 Specify a password for the Job Service user.

**Note:** Make sure that the user password meets the requirements listed on the page.

- 17 Click **Next**.

The Network Parameters page appears.

- 18 In the **Web server URL root** field, type the address of the server on its local network (the server address to which requests will come, for example, *http://ABC.Server* or *https://ABC.Server*). If you enabled the Secure Sockets Layer (SSL), use *https*. Unless you have made changes that would cause the server address to have changed, use the address that you typed for the last installation.

**Note:** When the application server is installed in an environment that includes a hardware networking switch, the URL that you type for the Web server URL root field must match the URL that the networking switch uses to address the application server.

As you type in the Web server URL root field, the Public server URL root field is automatically updated with the same value. If you edit the value in the Public server URL root field, the field is no longer updated automatically when the Web server URL root field is updated.

- 19 Optionally, you can secure (encrypt and prevent tampering of) communications by using a Secure Sockets Layer (SSL). For more information, see *Securing communication with Secure Sockets Layer (SSL)* (on page 59).
- 20 Optionally, if the application server computer is behind a proxy that rewrites the request URLs, in the **Public server URL root** field, type the address that the client computer uses to access the application server (the public address of the server computer as seen by the client computer). This address will be typed as the address of the server computer during installation of the client applications.

If the value for the **Public server URL root** field does not need to be different from the **Web server URL root** field, make sure that the values in both fields match.

- 21 Click **Next**.

The Configure the ClickOnce client page appears.

- 22 In the Environment Name field, type the name for your Central Designer instance.

The environment name appears on the web page that you navigate to to start the Central Designer application.

23 Specify the certificate to use to sign web service authorizations:

- a Click **Choose Certificate**.

The Choose Certificate dialog box appears.

- b Select a certificate.

- c Click **OK**.

The **Issued to**, **Issuer**, **Expiration**, and **Friendly name** fields are populated.

**Note:** On each Central Designer application server, an administrator must install the certificate that is used for signing web service authentications to the **LOCAL\_MACHINE\MY** store directory and make it usable by the user who runs the ASP.NET worker process (by default, the NETWORK\_SERVICE user). For more information, see *Installing a certificate for signing web service authorizations* (on page 12).

24 Click **Next**.

The Start Copying Files page appears.

25 Review the installation settings. To change any settings, click **Back**. If you are satisfied with the settings, click **Next**.

The installation begins. The Setup Status page appears, showing the status of the installation.

When the installation is complete, the InstallShield Wizard Complete page appears.

26 Click **Finish**.

## Upgrading the client applications

Because the client applications are ClickOnce applications, you do not need to upgrade them. Simply start the applications as you always do. For more information, see:

- *Starting the Central Designer client application* (on page 41).
- *Starting the Central Designer Administrator client application* (on page 42).



## CHAPTER 7

# Securing communication with Secure Sockets Layer (SSL)

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## About communication security

You can secure (encrypt and prevent tampering of) communications by using Secure Sockets Layer (SSL) and, optionally, by signing authorization information issued by the application server.

Use of Secure Sockets Layer for securing communication between the application server computer and the client computers ensures all web traffic between the client applications and the web server is encrypted and tamper resistant. If you enable SSL, the address of the application server begins with HTTPS instead of HTTP. You configure SSL through IIS using an X.509 certificate.

## About Secure Sockets Layer (SSL)

To encrypt the transmission of data between the application server and the client computers, you must enable a Secure Sockets Layer (SSL) and obtain an X.509 certificate using your company certificate store or a third party application. Oracle recommends that you enable SSL. You configure SSL using IIS.

For more information about enabling SSL, refer to the Microsoft documentation about configuring SSL for your version of IIS.

**Note:** When you install the client applications, type the address of the application server, including the correct protocol (either HTTP or HTTPS). If you enable SSL, the address of the application server must begin with HTTPS.





## CHAPTER 8

# Getting started

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# Getting started

## Logging on to the Central Designer Administrator application

An administrator must log on to the Central Designer Administrator application and create user accounts before other users can log on and use the Central Designer application.

- 1 Navigate to the following address:

http://<server name>/CentralDesignerInstall

where <server name> is the name of the application server computer.

- 2 Click the **Start Central Designer Administrator** link.

A dialog box appears, indicating that the application is starting.

The logon window appears.

- 3 Type the following information:

- **User name**—system.
- **Password**—Password you set during the server installation.

The application opens.

Oracle recommends:

- Changing the password of the system account after you log on to the Central Designer Administrator application.

For more information, see *Changing your password in the Central Designer Administrator application* (on page 64).

- Deactivating or terminating the system user after you create and activate users.

For more information, see the *Administrator Guide*.

## Changing your password in the Central Designer Administrator application

- 1 In the Users view, right-click a user name, and

- Select **Change Password**.

or

Press **Ctrl+P**.

A dialog box appears.

- 2 Type the new password twice for confirmation, and click **OK**.

## Logging on to the Central Designer application

You can log on after an administrator creates a user account for you.

- 1 Navigate to the following address:

`http://<server name>/CentralDesignerInstall`

where *<server name>* is the name of the application server computer.

- 2 Click the **Start Central Designer Client** link.

A dialog box appears, indicating that the application is starting.

The logon window appears.

- 3 Type your **User name** and **Password**, and click **Log On**.

**Note:** When a user account is created in the Central Designer Administrator application, the administrator can require the user to change the password after logging on the first time. You might be prompted to change your password.

## Changing your password in the Central Designer application

If the administrator who created your user account requires that you change your password, you are prompted when you start the application to change your password.

To change your password because it is required:

- 1 Log on to the Central Designer application.

The Change Password dialog box appears.

- 2 Type your old and new passwords. You must type your new password twice.
- 3 Click **OK**.

To change your password at any time after logging on:

- 1 Select **File > Change Password**.

The Change Password dialog box appears.

- 2 Type your old and new passwords. You must type your new password twice for confirmation.
- 3 Click **OK**.

## Logging off

- Select **File > Exit**.

If you have unsaved changes, you are prompted to save them.

## Overview of configuring the Central Designer software

In the Central Designer Administrator application, you create and manage administrative components such as users, roles, locales, and security settings.

Some tasks in the Central Designer application cannot be performed until the administration information is set up correctly in the Central Designer Administrator application.

Other types of administration, including administering studies and libraries, are performed in the Central Designer application.

# CHAPTER 9

## Troubleshooting

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# Troubleshooting

## What should I do if an error occurs during the server installation?

Errors during server installation can be caused by several issues, including issues with the database user name and with the installation of the Oracle database software.

To troubleshoot:

- Read the installer.log file.

The installer.log file contains information about the installation, including any errors that occurred. The default location of the file on the application server computer is C:\Program Files\Oracle Health Sciences\Central Designer.

- If the application server and database server are on the same computer, you must install the Oracle Server software and Oracle Client software in the same home, or the Central Designer server installation will not work.

## What should I do if I cannot log on?

You might encounter issues when logging on if the URL that the client applications use does not match one of the URLs listed in the configuration files for Microsoft Web Services Enhancements (WSE). You can configure the URL or URLs in the Certificate Configuration tool, and the URLs in the configuration files are updated automatically.