Oracle® Clinical Development Analytics

Installation Guide

Release 2.0.0.2

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Oracle Clinical Development Analytics Installation Guide, Release 2.0.0.2

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Preface

This guide describes how to install the Oracle Clinical Development Analytics (OCDA) software, Release 2.0.0.2.

This section contains the following topics:

- Restricted Use License of Oracle Life Sciences Data Hub with Oracle Clinical Development Analytics on page v
- Intended Audience on page v
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Restricted Use License of Oracle Life Sciences Data Hub with Oracle Clinical Development Analytics

Oracle Clinical Development Analytics is licensed with a Restricted Use (RU) license of Oracle Life Sciences Data Hub.

This RU license of Oracle Life Sciences Data Hub permits the following:

- Modification of existing shipped Oracle Clinical Development Analytics Extract Transform Load (ETL), Dimensions or Facts.
- Extension of existing Oracle Clinical Development Analytics staging tables.
- Addition of new Oracle Clinical Development Analytics staging tables.
- Addition of new ETL programs to populate an existing Oracle Clinical Development Analytics fact or dimension from a new data source.
- Addition of new dimensions.

All other changes to Oracle Clinical Development Analytics data model or ETL require a Full Use Oracle Life Sciences Data Hub license.

Intended Audience

This installation guide is intended for users who are responsible for installing Oracle Clinical Development Analytics. You should be familiar with the Oracle Life Sciences

Data Hub (Oracle LSH) application and the Oracle Business Intelligence Enterprise Edition (OBIEE) application.

Required Skills

Installing Oracle Clinical Development Analytics requires a level of knowledge equivalent to having mastered the material in Oracle's DBA Architecture and Administration courses.

You must be able to do the following in SQL*Plus:

- Read and edit scripts
- Run scripts and review log files for Oracle errors

You must be able to do the following in UNIX:

- Install Oracle software and patches
- Identify space on a file system for Oracle database tablespaces
- Set and use environment variables
- Edit files using vi or another editor
- Run scripts and review log files

You must have technical and functional expertise in:

- Oracle Life Sciences Data Hub

You also need expertise in:

- Oracle E-Business Suite 11i installation (especially, multi-node installation with split configuration)
- Database upgrades
- Oracle Warehouse Builder installation and configuration
- Oracle Thesaurus Management System installation and configuration
- Oracle Business Intelligence Enterprise Edition installation and configuration
- Oracle Life Sciences Data Hub installation and configuration
- Informatica installation and configuration

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at `http://www.oracle.com/accessibility/`.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an

otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Deaf/Hard of Hearing Access to Oracle Support Services

To reach Oracle Support Services, use a telecommunications relay service (TRS) to call Oracle Support at 1.800.223.1711. An Oracle Support Services engineer will handle technical issues and provide customer support according to the Oracle service request process. Information about TRS is available at http://www.fcc.gov/cgb/consumerfacts/trs.html, and a list of phone numbers is available at http://www.fcc.gov/cgb/dro/trsphonebk.html.

Finding Information and Patches on My Oracle Support

Your source for the latest information about Oracle Clinical Development Analytics is Oracle Support's self-service Web site, My Oracle Support (formerly MetaLink).

Before you install and use an Oracle software release, always visit the My Oracle Support Web site for the latest information, including alerts, release notes, documentation, and patches.

Creating a My Oracle Support Account

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

To register for My Oracle Support:

1. Open a Web browser to http://support.oracle.com.
2. Click the **Register here** link to create a My Oracle Support account. The registration page opens.
3. Follow the instructions on the registration page.

Signing In to My Oracle Support

To sign in to My Oracle Support:

1. Open a Web browser to http://support.oracle.com.
2. Click **Sign In**.
3. Enter your user name and password.
4. Click **Go** to open the My Oracle Support home page.

Searching for Knowledge Articles by ID Number or Text String

The fastest way to search for product documentation, release notes, and white papers is by the article ID number.

To search by the article ID number:

1. Sign in to My Oracle Support at http://support.oracle.com.
2. Locate the Search box in the upper right corner of the My Oracle Support page.

3. Click the sources icon to the left of the search box, and then select Article ID from the list.
4. Enter the article ID number in the text box.
5. Click the magnifying glass icon to the right of the search box (or press the Enter key) to execute your search.

   The Knowledge page displays the results of your search. If the article is found, click the link to view the abstract, text, attachments, and related products.

In addition to searching by article ID, you can use the following My Oracle Support tools to browse and search the knowledge base:

- Product Focus — On the Knowledge page, you can drill into a product area through the Browse Knowledge menu on the left side of the page. In the Browse any Product, By Name field, type in part of the product name, and then select the product from the list. Alternatively, you can click the arrow icon to view the complete list of Oracle products and then select your product. This option lets you focus your browsing and searching on a specific product or set of products.
- Refine Search — Once you have results from a search, use the Refine Search options on the right side of the Knowledge page to narrow your search and make the results more relevant.
- Advanced Search — You can specify one or more search criteria, such as source, exact phrase, and related product, to find knowledge articles and documentation.

Finding Patches on My Oracle Support

Be sure to check My Oracle Support for the latest patches, if any, for your product. You can search for patches by patch ID or number, or by product or family.

To locate and download a patch:

1. Sign in to My Oracle Support at http://support.oracle.com.
2. Click the **Patches & Updates** tab.

   The Patches & Updates page opens and displays the Patch Search region. You have the following options:

   - In the Patch ID or Number is field, enter the primary bug number of the patch you want. This option is useful if you already know the patch number.
   - To find a patch by product name, release, and platform, click the Product or Family link to enter one or more search criteria.
3. Click **Search** to execute your query. The Patch Search Results page opens.
4. Click the patch ID number. The system displays details about the patch. In addition, you can view the Read Me file before downloading the patch.
5. Click **Download**. Follow the instructions on the screen to download, save, and install the patch files.

Finding Certification Information

Certifications provide access to product certification information for Oracle and third party products. A product is certified for support on a specific release of an operating system on a particular hardware platform, for example, Oracle Database 10g Release 2 (10.2.0.1.0) on Sun Solaris 10 (SPARC). To find certification information:

1. Sign in to My Oracle Support at http://support.oracle.com.

2. Click the **Certifications** tab. The Certifications page opens and displays the Find Certifications region.
3. In Select Product, enter `Oracle Clinical Development Analytics`.
4. Click the Go to Certifications icon.

   The right pane displays the certification information.
5. Select a certification to view the certification details.

Finding Documentation on Oracle Technology Network

The Oracle Technology Network Web site contains links to all Oracle user and reference documentation. To find user documentation for Oracle products:

1. Go to the Oracle Technology Network at

   `http://www.oracle.com/technetwork/index.html` and log in.
2. Mouse over the Support tab, then click the **Documentation** hyperlink.

   Alternatively, go to Oracle Documentation page at

   `http://www.oracle.com/technology/documentation/index.html`
3. Navigate to the product you need and click the link.

   For example, scroll down to the Applications section and click Oracle Health Sciences Applications.
4. Click the link for the documentation you need.

Related Documents

For more information, see the following documents in the *Oracle Life Sciences Data Hub Release 2.1.3 and Release 2.1.4* documentation sets and the *Oracle Business Intelligence Enterprise Edition Release 10.1.3.4.1* documentation set.

Oracle Life Sciences Data Hub Documentation

The Oracle Life Sciences Data Hub 2.1.3 documentation set includes:

- *Oracle Life Sciences Data Hub Installation Guide* (Part E14366)
- *Oracle Life Sciences Data Hub Implementation Guide* (Part E14368)
- *Oracle Life Sciences Data Hub System Administrator's Guide* (Part E14369)
- *Oracle Life Sciences Data Hub Application Developer's Guide* (Part E14370)
- *Oracle Life Sciences Data Hub User's Guide* (Part E14371)

The Oracle Life Sciences Data Hub 2.1.4 documentation set includes:

- *Oracle Life Sciences Data Hub Installation Guide* (Part E18152)
- *Oracle Life Sciences Data Hub Implementation Guide* (Part E18308)
- *Oracle Life Sciences Data Hub System Administrator's Guide* (Part E18305)
- *Oracle Life Sciences Data Hub Application Developer's Guide* (Part E18306)
- *Oracle Life Sciences Data Hub User's Guide* (Part E18307)

Oracle Business Intelligence Enterprise Edition Documentation

The Oracle Business Intelligence Enterprise Edition documentation set includes:

- *System Requirements and Supported Platforms for Oracle Business Intelligence Suite Enterprise Edition* (Part E10417)
- *Oracle Business Intelligence Answers, Delivers, and Interactive Dashboards User Guide* (Part B31767)
- *Oracle Business Intelligence Presentation Services Administration Guide* (Part B31766)
- *Oracle Business Intelligence Server Administration Guide* (Part B31700)
- *Oracle Business Intelligence Web Services Guide* (Part B31769)

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
`monospace`	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Before You Begin

Oracle Clinical Development Analytics (OCDA) is an analytical and a transactional reporting application.

OCDA extracts clinical data on the execution of clinical trials from Oracle Clinical and Siebel Clinical, providing a data warehouse containing key metrics across the clinical development business process. From this warehouse, OCDA provides key pre-defined reports, and enables the creation of additional custom reports.

In addition to Oracle Clinical and Siebel Clinical, OCDA requires the presence of several other products including Oracle Life Sciences Data Hub (Oracle LSH) and Oracle Business Intelligence Enterprise Edition (OBIEE).

This chapter presents an overview of the OCDA requirements. It also describes the tasks that you must complete before you can install the OCDA application. Specifically, this chapter includes the following topics:

- Getting the Oracle Clinical Development Analytics Media Pack on page 1-1
- Technology Stack and System Requirements on page 1-2
- Installing the Prerequisite Software on page 1-5
- Creating an Oracle Life Sciences Data Hub User Account and Assigning Required Roles on page 1-8

See Also:

Known Installation and Configuration Issues: For up-to-date information about known installation and configuration issues, refer to My Oracle Support document 1138053.1; see Searching for Knowledge Articles by ID Number or Text String on page -vii.

1.1 Getting the Oracle Clinical Development Analytics Media Pack

To receive a physical media pack with all the required DVDs, contact Oracle Support. To expedite your request you can either call Oracle Support directly or open an SR selecting problem category: **Version Update Request**.

To download the media pack from eDelivery:

1. Go to `http://edelivery.oracle.com` and log on.
2. From the **Select a Product Pack** drop-down list, select **Health Sciences**.
3. From the **Platform** drop-down list, select the appropriate operating system.
4. Click **Go**.

> **Note:** If this media pack is the only one available in Health Sciences for the platform you selected, the system takes you immediately to the media pack page from which you can download the software disk by disk.

5. Select **Oracle Clinical Development Analytics 2.0.0.1 Media Pack for *Your_Operating_System*** and click **Continue**.
6. Download the software.

1.2 Technology Stack and System Requirements

The required technology stack for Oracle Clinical Development Analytics consists of the following products:

- Oracle Life Sciences Data Hub (Oracle LSH) 2.1.3.2 with patch number 9827016 and 10085702
  or
  Oracle LSH 2.1.4.1 with patch number 10307650
- Oracle Business Intelligence Enterprise Edition (OBIEE) 10.1.3.4.1
- Oracle Database 10.2.0.4
  or
  Oracle Database 11.2.0.1
- Informatica PowerCenter 8.1.1 SP4
  or
  Informatica PowerCenter 8.6.1 HF11 or 9.0.1

> **Note:** Oracle LSH 2.1.3.2 is supported only on Oracle Database 10.2.0.4 and Informatica PowerCenter 8.1.1 SP4 while Oracle LSH 2.1.4.1 is supported on Oracle Database 11.2.0.1 and Informatica PowerCenter 8.6.1 HF11 or 9.0.1.

- Oracle Clinical 4.6
  or
  Oracle Clinical 4.5.3 with Oracle Clinical Patch OC_4.5.3.18 and Oracle Clinical Patch OC_4.5.3.23, or any patch that obsoletes those patches
- Siebel Clinical 8.0.x
  or
  Siebel Clinical 8.1.1

Refer to the following sources for information about system requirements, platforms or configurations supported:

Table 1–1 System Requirements References

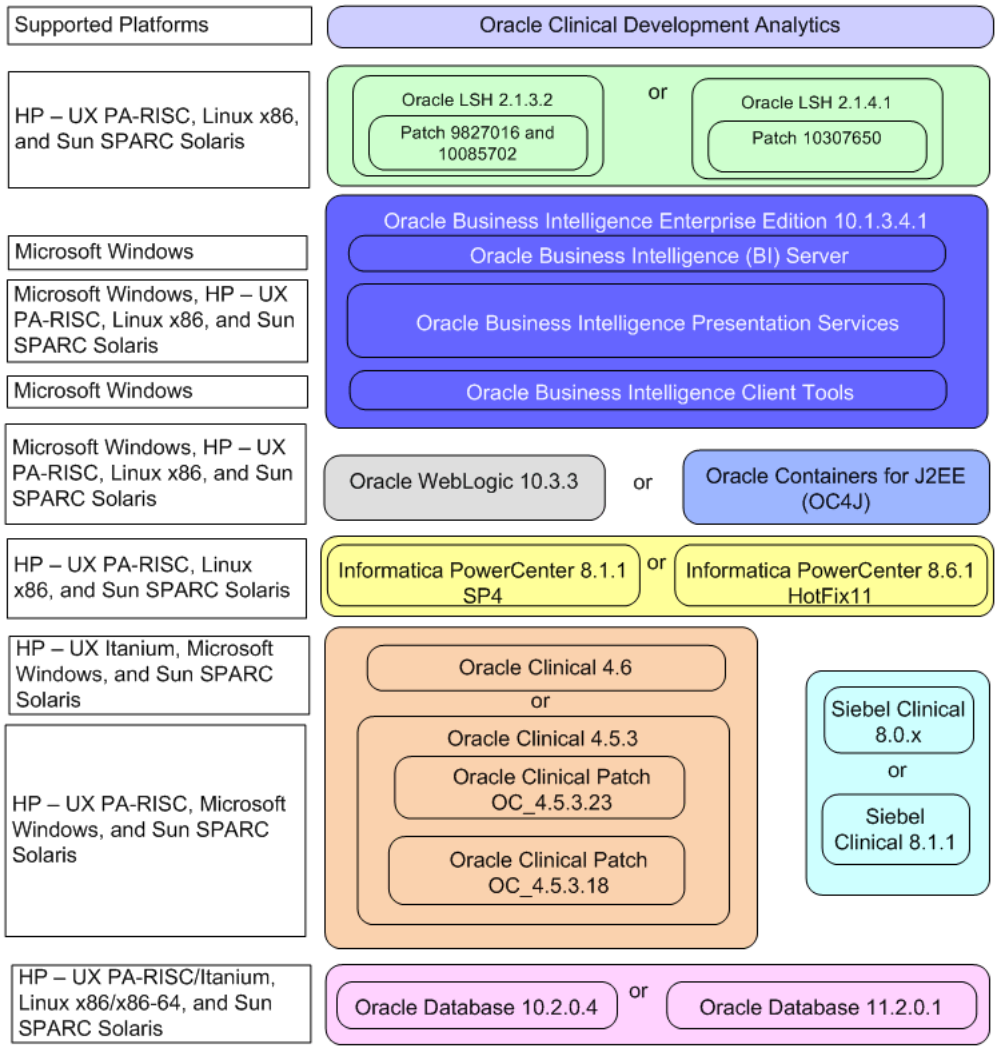
Product	Reference
Oracle Business Intelligence Enterprise Edition (OBIEE) 10.1.3.4.1	*System Requirements and Supported Platforms for Oracle Business Intelligence Suite Enterprise Edition*

Table 1–1 (Cont.) System Requirements References

Product	Reference
Informatica PowerCenter 8.1.1 SP4 or 8.6.1 HF11 or 9.0.1	*Informatica Installation Guide*
Other Technology Stack Components	My Oracle Support / Certifications

Note: It is important to get the technology stack products from the OCDA media pack because newer versions of the technology stack products may have become available but may not be compatible with OCDA.

Figure 1–1 Oracle Clinical Development Analytics Technology Stack



For more information about certifications, refer to Finding Certification Information on page -viii.

1.2.1 Supported Browsers

OCDA supports those Internet browsers supported by OBIEE. Oracle publishes information on system requirements and supported platforms for each release of OBIEE. You can locate this information through the Oracle Technology Network's documentation page for OBIEE. Select the library corresponding to your release of OBIEE. On the Library's Getting Started Tab, follow the link for System Requirements and Supported Platforms. Within that document, look for the Client Environment Requirements section. This will list the supported client operating systems and Web browsers for the OBIEE release.

1.3 Installation Types

When you plan OCDA installation, you will have the choice of two types of installations:

- Fresh installation
- Upgrade installation

Each installation type requires a specific version of software. It is important to understand how these software relate to each other.

1.3.1 Fresh Installation

You can select to install OCDA 2.0.0.2 on:

- Oracle LSH 2.1.3.2 with patch number 9827016, 10085702, Oracle Database 10.2.0.4 and Informatica PowerCenter 8.1.1 SP4

  or

- Oracle LSH 2.1.4.1 with patch number 10307650, Oracle Database 11.2.0.1, and Informatica PowerCenter 8.6.1 HF11 or 9.0.1

After installing the requisite technology stack, you must install the OCDA Release 2.0 first and you must perform the post installation tasks listed in Chapter 3, Post Installation Tasks. After completing post installation tasks, apply the OCDA 2.0.0.1 patch atop. Subsequently, apply OCDA 2.0.0.2 patch atop.

See the Chapter 2, Oracle Clinical Development Analytics Installation for information on installing OCDA 2.0.

See the Chapter 4, Upgrade Tasks for information on upgrading OCDA 2.0 to OCDA 2.0.0.1 and upgrading OCDA 2.0.0.1 to OCDA 2.0.0.2.

1.3.2 Upgrade Installation

You must upgrade an existing OCDA 2.0 installation with the following options:

- Upgrade Oracle LSH from 2.1.3.2 to 2.1.4.1 and apply patch number 10307650. Atop apply OCDA 2.0.0.1 and OCDA 2.0.0.2 patches to upgrade OCDA 2.0.

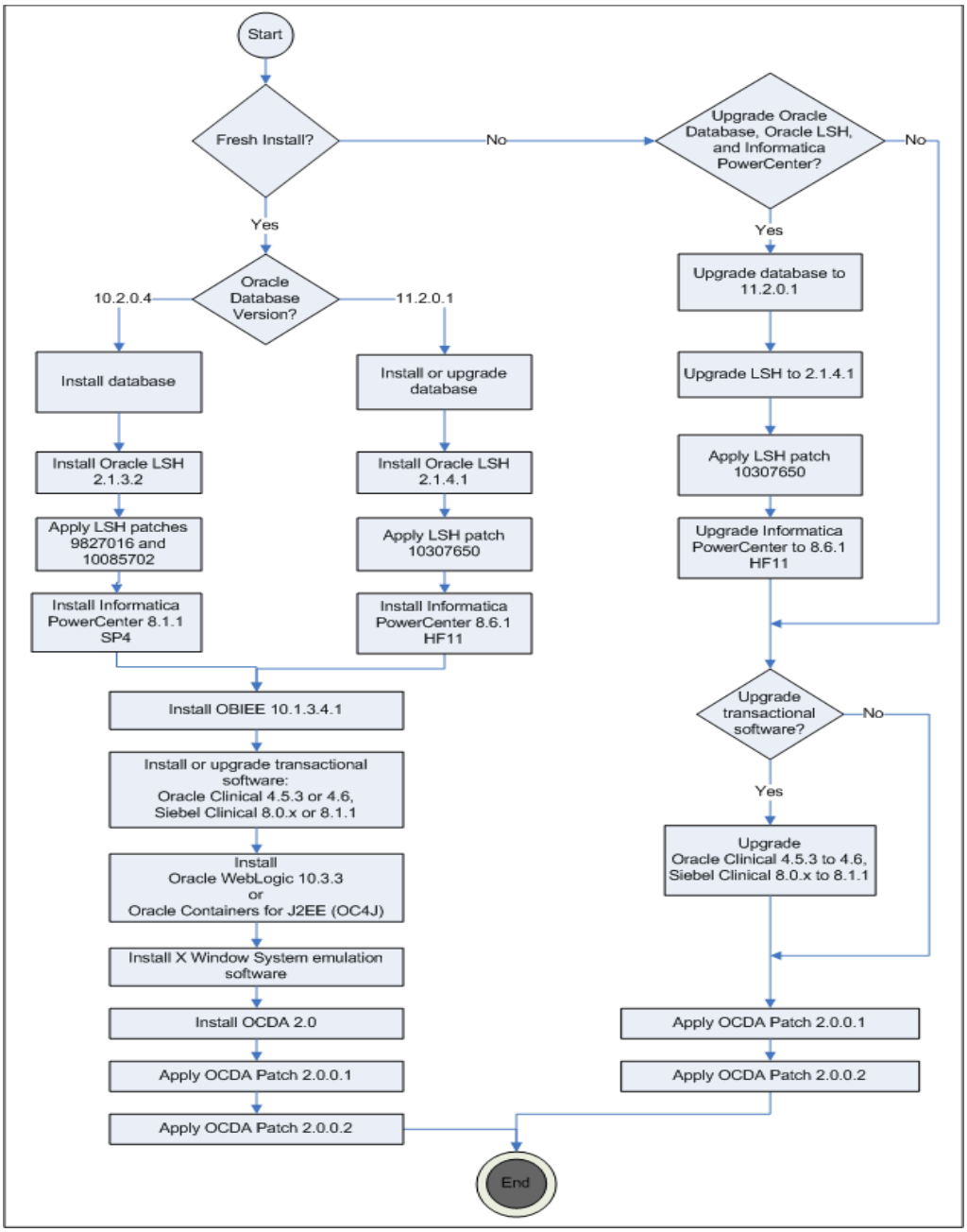
  See the *Oracle Life Sciences Data Hub Installation Guide Release 2.1.4* chapter on upgrading Oracle LSH 2.1.3 for more information.

- Apply OCDA 2.0.0.1 and OCDA 2.0.0.2 patches to upgrade OCDA 2.0 alone

  See the Chapter 4, Upgrade Tasks for information on upgrading OCDA 2.0 to OCDA 2.0.0.1 and upgrading OCDA 2.0.0.1 to OCDA 2.0.0.2.

Figure 1-2 shows the possible installation paths.

Figure 1–2 OCDA Installation Paths



1.4 Installing the Prerequisite Software

Before you can install the OCDA application, you must complete the following pre-installation tasks:

- ❑ Install Oracle Life Sciences Data Hub (Oracle LSH)
  - * Install Oracle LSH 2.1.3.2

    Follow the instructions in *Oracle Life Science Data Hub Installation Guide Release 2.1.3*.
  - * Apply patch 10085702 and 9827016.

Follow the instructions in the respective patch readme.

* Install Oracle LSH 2.1.4.1

  Follow the instructions in *Oracle Life Science Data Hub Installation Guide Release 2.1.4*.

* Apply patch 10307650.

  Follow the instructions in the respective patch readme.

❑ Install Informatica PowerCenter

– Install Informatica PowerCenter 8.1.1 SP4

  or

– Install Informatica PowerCenter 8.6.1 HF11 or 9.0.1

Note that Informatica is a separately licensed product. Follow the instructions in *Informatica Installation Guide*. After installing Informatica, follow the instructions in *Oracle Life Sciences Data Hub Installation Guide Release 2.1.3 or 2.1.4* to integrate Oracle LSH with Informatica.

Note: If you are using Oracle Database for Informatica repository, Oracle recommends that you use the UTF8 character set.

Oracle recommends that you create Informatica repository for OCDA with the following settings:

Table 1–2 Informatica Repository Settings

Settings	Value
Character Set	UTF8
Versioning	False
Global Repository	False
Security Audit Trail	No
Operating Mode	Normal
Informatica Administrator Account	LSHAdmin Note that the Administrator Account name is case sensitive and mandatory.
Informatica Administrator Account Password	Get the password from your system administrator.

Oracle recommends that you set the following database settings:

Table 1–3 Database Settings

Settings	Value
Open_dblinks	100
Open_dblinks_per_instance	100

You must add the *AggSupprtWithNoPartLic* property in Informatica PowerCenter Administration Console, to use the sorted Aggregator transformation set in Informatica PowerCenter.

Perform the following steps to add the *AggSupprtWithNoPartLic* property:

1. Log in to Informatica PowerCenter Administration Console.
2. Select the PowerCenter Integration Service.
3. In the Custom Properties, click **Edit**.
4. Click **Add**.
5. In Name, enter `AggSupprtWithNoPartLic`.
6. In Value, enter `Yes`.
7. Click **OK** to add the property.

❑ Install Oracle Business Intelligence Enterprise Edition (OBIEE) 10.1.3.4.1 with the following components:

– Oracle Business Intelligence Server

– Oracle Business Intelligence Presentation Services

– Oracle Business Intelligence Client Tools

Note that OBIEE is a separately licensed product. Follow the instructions in *Oracle Life Sciences Data Hub Installation Guide Release 2.1.3* to integrate Oracle LSH with OBIEE.

❑ Upgrade or install Oracle Clinical

– Install Oracle Clinical 4.6 or upgrade to Oracle Clinical 4.6

or

– Install Oracle Clinical 4.5.3 or upgrade to Oracle Clinical 4.5.3

Follow the instructions in *Oracle Clinical Installation Guide Release 4.5.1* and *Oracle Clinical 4.5.3 readme*.

– Apply Oracle Clinical Patch OC_4.5.3.18 and Oracle Clinical Patch OC_ 4.5.3.23, or any patch that obsoletes those patches

Follow the installation instructions in the readme.

❑ Upgrade or install Siebel Clinical

– Install Siebel Clinical 8.0.x or upgrade to Siebel Clinical 8.0.x

or

– Install Siebel Clinical 8.1.1 or upgrade to Siebel Clinical 8.1.1

For more information, refer to the Installation/Upgrade section of the *Siebel Bookshelf, Version 8.1*, and click the links to the guides that are relevant to your organization's implementation.

❑ Install X Window System emulation software.

The Oracle Universal Installer utility installs the Oracle Clinical Development Analytics application. Because the Installer uses the X Window System to display its interface, you must perform the installation either from a system monitor that supports rasterized graphical displays, or from a computer with X Window System emulation software. We recommend that you use Hummingbird Exceed 7.0 or later to enable an X Window display on your system.

> **Note:** To prevent screen display problems while running the Oracle Universal Installer in Exceed, go to **XConfig** > **Screen Definition** > **Screen 0** and change Window Manager from Default to Native.

OCDA offers a choice of support for Application Server. You can choose to have Oracle Containers for J2EE (OC4J) or Oracle WebLogic Server 10.3.3 as your Application Server.

1.5 Creating an Oracle Life Sciences Data Hub User Account and Assigning Required Roles

Before you can install the OCDA software, you must create an Oracle LSH user account if one does not already exist.

Once you create the user account, you must assign the following security roles to the account:

- LSH Super User
- LSH Security Bootstrap Admin
- LSH Checkin Admin

> **Note:** You must assign the LSH User Group and the LSH User Role to the CDA user created.

During the installation of the OCDA software, the Oracle Universal Installer prompts you for the name of the user you created.

See Also:

Oracle Life Sciences Data Hub System Administrator's Guide (Setting Up User Accounts section in Chapter 10, Setting Up the Security System), for more information on Oracle LSH user accounts and security roles.

1.5.1 Creating an Oracle Life Sciences Data Hub User Account

System administrators and security administrators have privileges to create user accounts for the Oracle LSH application. You use the administration tools in the Oracle E-Business Suite to create and update user accounts.

To create an Oracle LSH user account:

1. Log in to the Oracle E-Business Suite application as the sysadmin user. The Oracle User Management screen appears.
2. Select the **User Management** responsibility in the navigator, and then click **Users** from the User Management column. The Oracle User Management User Maintenance screen appears.
3. Click the **Register** field, and then select **External Organization Contact** from the list.
4. Click **Go.** The Register Business Contact screen appears.
5. Enter values in the following fields:

- **Email Address —** Enter the e-mail address for this user. Oracle LSH uses this address to correspond with the user.
- **Name Fields —** Enter the name of the user in the fields. The First Name and the Last Name are mandatory. The Prefix, Middle Name, and Suffix are optional.
- **Organization —** Enter the organization to which the user belongs.
- **Phone Number —** Enter the telephone contact details for this user.
- **Account Information--Password —** Select one of the options. If you select **Generate Automatically,** the system generates the password, and then sends the password to the e-mail address you specified for this user.

  If you select **Enter Manually,** you type and confirm the password, and inform the user what it is. The user will have to reset the password in either case.

6. Click **Submit.** The Confirmation screen appears.
7. Click **OK.** The system creates the user account and returns to the User Management screen.

1.5.2 Assigning Application Roles to the Oracle Life Sciences Data Hub User Account

To assign the required application roles to the Oracle LSH user account:

1. Select the **User Management** responsibility in the navigator, and then click **Users** from the User Management column. The Oracle User Management User Maintenance screen appears.
2. Search for the user to whom you want to assign one or more roles.
3. Click the Update icon corresponding to the user. The Update User screen appears.
4. Click the **Roles** tab, and then click **Assign Roles.** The Search and Select screen appears.
5. Search for all Oracle LSH predefined roles by selecting Search By Role, entering LSH%, and clicking Go.

   The system displays all the predefined Oracle LSH application roles in the lower part of the screen.
6. Select the following check boxes to assign the required roles:
   - LSH Checkin Admin
   - LSH Security Bootstrap Admin
   - LSH Super User
7. Click **Select.** The system adds the roles to the user and the Update User screen appears.
8. Enter a justification for assigning each role to the user.
9. Click **Apply.** The system assigns the roles to the user and returns to the User Maintenance screen.

2

Oracle Clinical Development Analytics Installation

This chapter presents an overview of the Oracle Universal Installer and OCDA installation process. It also describes the OCDA Installation tasks that you must complete for different environments. This chapter includes the following topics:

- About Oracle Clinical Development Analytics Installation Options on page 2-1
- About the Oracle Universal Installer on page 2-3
- Gathering Table Statistics on page 2-5
- Installing Oracle Clinical Development Analytics on the Oracle Life Sciences Data Hub Server on page 2-6
- Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server on page 2-8
- Installing Oracle Clinical Development Analytics on Combined Oracle Life Sciences Data Hub and Oracle Business Intelligence Enterprise Edition Server on page 2-10
- Installing Oracle Clinical Development Analytics on a Stand-alone Database Server on page 2-12

Note: You can install OCDA using any OBIEE configuration supported by Oracle LSH.

2.1 About Oracle Clinical Development Analytics Installation Options

OCDA can be installed in a single server or multi-server architecture. The following are the installation options:

- If you install Oracle LSH, OBIEE, and database on a single server, perform the following tasks:
  1. Ensure that you have the required tablespace. For more information, refer Section 2.2.1, Requirements for Tablespace.
  2. Gather table statistics. Perform steps listed in Section 2.3, Gathering Table Statistics.
  3. Perform steps listed in Section 2.6, Installing Oracle Clinical Development Analytics on Combined Oracle Life Sciences Data Hub and Oracle Business Intelligence Enterprise Edition Server.

- If you have Oracle LSH and the database on the same server and OBIEE on a separate server, perform the following tasks:
  1. Ensure that you have the required tablespace. For more information, refer Section 2.2.1, Requirements for Tablespace.
  2. Gather table statistics. Perform steps listed in Section 2.3, Gathering Table Statistics.
  3. On the server were you want to install Oracle LSH, perform steps listed in Section 2.4, Installing Oracle Clinical Development Analytics on the Oracle Life Sciences Data Hub Server.
  4. On the server were you want to install OBIEE, perform steps listed in Section 2.5, Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server.
- If you have the database is installed on a separate server than Oracle LSH:
  1. Ensure that you have the required tablespace. For more information, refer Section 2.2.1, Requirements for Tablespace.
  2. Gather table statistics. Perform steps listed in Section 2.3, Gathering Table Statistics.
  3. On the database server were you want to install Oracle LSH, perform steps listed in Section 2.7, Installing Oracle Clinical Development Analytics on a Stand-alone Database Server.
  4. Perform steps listed in Section 2.5, Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server.

2.1.1 Configuring Oracle Clinical Development Analytics on Oracle WebLogic Server 10.3.3

By default, OCDA is installed on an OC4J Application Server. Alternatively, OCDA supports Oracle WebLogic Server 10.3.3 as your Application Server. Based on your business needs, you can include Oracle WebLogic Server instances called *Administration Server* and cluster of *Managed Servers*. This section includes the following topics:

- Configuring Oracle Clinical Development Analytics on Oracle WebLogic Administration Server on page 2-2
- Configuring Oracle Clinical Development Analytics on Oracle WebLogic Managed Server on page 2-3

2.1.1.1 Configuring Oracle Clinical Development Analytics on Oracle WebLogic Administration Server

The OCDA installer automatically configures OCDA on Oracle WebLogic Administration Server. When you run the installer, based on the installation architecture you choose, perform the steps listed in *either* of the following sections:

- Section 2.5, Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server
- Section 2.6, Installing Oracle Clinical Development Analytics on Combined Oracle Life Sciences Data Hub and Oracle Business Intelligence Enterprise Edition Server

Note: In Select the Application Server to Use screen, select **WEBLOGIC** as your Application Server.

2.1.1.2 Configuring Oracle Clinical Development Analytics on Oracle WebLogic Managed Server

To configure OCDA on Oracle WebLogic Managed Server, perform the following tasks:

1. Run the OCDA Installer. Based on the installation architecture you choose, perform the steps listed in *either* of the following sections:
   - Section 2.5, Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server
   - Section 2.6, Installing Oracle Clinical Development Analytics on Combined Oracle Life Sciences Data Hub and Oracle Business Intelligence Enterprise Edition Server

   Note: In Select the Application Server to Use screen, select **WEBLOGIC** as your Application Server.

2. Manually deploy OCDA's help and images files on Oracle WebLogic Managed Server. Perform post installation steps listed in Section 3.11, Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server (Chapter 3, Post Installation Tasks).

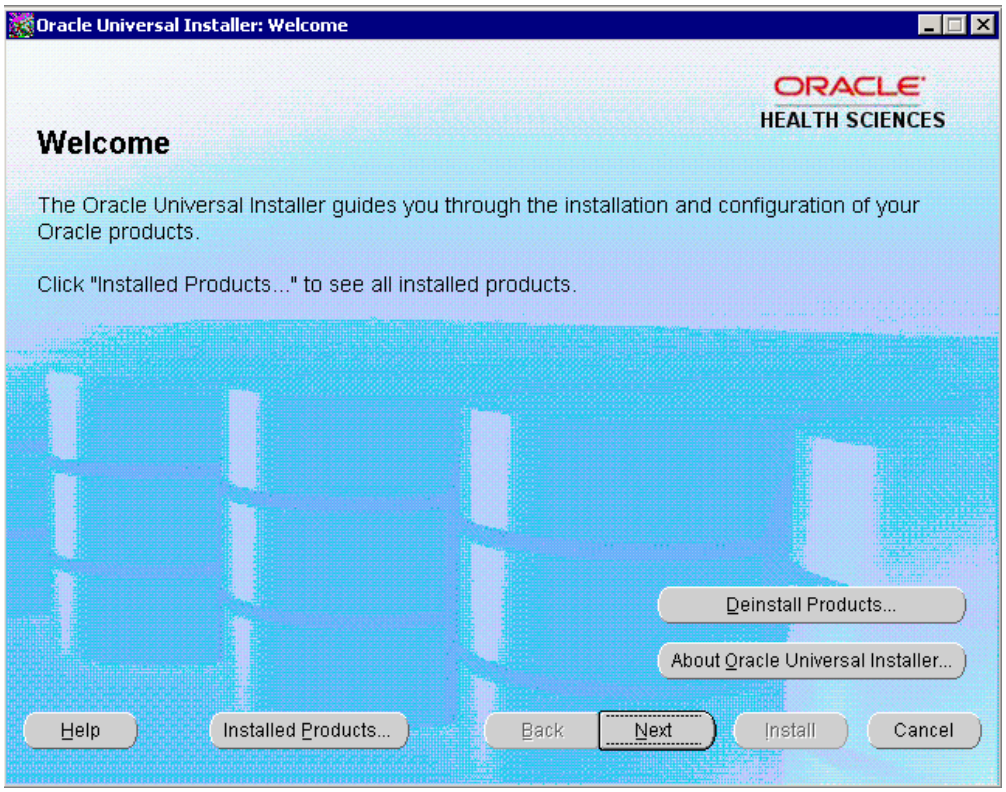
2.2 About the Oracle Universal Installer

OCDA uses the Oracle Universal Installer to guide you through each step of the installation process.

The Oracle Universal Installer provides the following features:

- Describes the installation options for OCDA.
- Detects pre-set environment variables and configuration settings.
- Sets environment variables and configuration during installation.
- Offers configuration options for a customized installation of OCDA.

Figure 2–1 Welcome Screen



- **Deinstall Products —** Uninstalls individual components or the entire product. Note that this button appears only on the Welcome screen.
- **About Oracle Universal Installer —** Displays the version number of the installer in use.
- **Help —** Opens detailed information about the functionality of each screen.
- **Installed Products —** Lists the products currently installed. In addition, provides the option to uninstall entire products or components.
- **Back —** Returns to the previous screen.
- **Next —** Goes to the next screen.
- **Install —** Begins the process of installing the software.
- **Cancel —** Cancels the installation process and exits the installer.

2.2.1 Requirements for Tablespace

Before you run the installer, ensure that the autoextend feature is enabled for the following tablespaces in the Oracle LSH database:

- APPS_TS_MEDIA
- APPS_TS_TX_DATA
- APPS_TS_TX_IDX
- APPS_UNDOTS1
- CTXSYS

Oracle recommends the following tablespace free space (minimum):

- APPS_TS_MEDIA – 1 GB of free space
- APPS_TS_TX_DATA – 2 GB of free space

If you want to create a tablespace for the RXI user, you must create a new tablespace by performing the following:

1. Connect to the LSH/CDA database as sysdba.
2. `@create tablespace <RXI tablespace name> datafile '<datafiles location>/<RXI datafile name>.dbf';`

If you want to use an already existing tablespace, ensure that you enter the correct tablespace name.

WARNING: You must not use the SYSTEM tablespace.

2.3 Gathering Table Statistics

Before you install OCDA, run the *Gather Schema Statistics* concurrent program to gather table statistics. The concurrent program can be run from the System Administrator Responsibility to generate statistics. Perform the following steps:

WARNING: Ensure there are no other concurrent jobs are running when you gather table statistics; else those concurrent jobs might complete with errors.

1. Log in to Oracle LSH with the System Administrator responsibility.

   For example, you can use the sysadmin account and password.
2. Navigate to **System Administrator** > **Run**.

   The Submit a New Request window opens in Oracle Applications Profile Forms.
3. Click **OK**.

   The Submit Request window opens.
4. In Name, select **Gather Schema Statistics**.
5. Click in the Parameters field.
6. In the Parameters window, enter `CDR` as the Schema Name.

   This can be run for specific schemas by specifying the schema name or entering CDR to gather statistics for every schema in the database.
7. Click **OK**.
8. Click **Submit**.

To check if the *Gather Schema Statistics* concurrent program you submitted has executed successfully, perform the following steps:

1. Log in to Oracle LSH with the System Administrator responsibility.

   For example, you can use the sysadmin account and password.
2. Navigate to **System Administrator** > **View**.

   The Find Requests window opens in Oracle Applications Profile Forms.

3. Select **All My Requests**.
4. Click **Find**.

2.4 Installing Oracle Clinical Development Analytics on the Oracle Life Sciences Data Hub Server

To install the OCDA application on the Oracle LSH Server on Unix:

> **Important:** This section assumes that the Oracle database is located on the same server as the middle-tier.
>
> The Operating System User that you are using for installing OCDA should have read/write privileges on ORACLE_HOME and ORACLE_INVENTORY directories.

1. Log in as owner of Oracle Applications middle-tier.
2. Source the APPSORA.env file in $APPL_TOP of your Oracle LSH installation to set the environment variables.
3. Verify that the Oracle Applications variable $APPLPTMP is defined and that the permissions on the directory are correct and set to 777.

   Ensure that both the applmgr user and the database user oracle have read/write permissions on $APPLPTMP. OCDA installation uses this standard location to stage a file that needs to be loaded into the Oracle LSH database.
4. Insert the CD labeled Oracle Clinical Development Analytics 2.0.0.1 into the CD-ROM drive. Transfer the platform specific zip file on the disc to the Oracle LSH server. Extract the contents of the platform specific zip file.

   If you downloaded the OCDA media pack from the Oracle E-Delivery Web site, navigate to the directory where you downloaded and extracted the media pack. Locate the platform specific zip file. Transfer the platform specific zip file to the Oracle LSH server. Extract the contents of the platform specific zip file.
5. Assign 755 permissions to the contents of the install folder where the installer is unzipped

   ```
   chmod -R 755 <Path to directory where the installer is unzipped>
   ```
6. Navigate to the following directory:

   ```
   install
   ```
7. Set the X Window display output to your local computer's IP address. For example:

   ```
   C shell: setenv DISPLAY 123.45.67.89:0l
   ```
8. Invoke the **runInstaller** executable to launch the installer.

   ```
   ./runInstaller
   ```

   The installer opens the Welcome screen, which provides information about the Oracle Universal Installer and its options.
9. Click **Next**

10. If you are running the installer for the first time, the Specify Inventory Directory and Credentials screen appears.

    Click **Browse** to navigate through the available directory to select a location. Select **Operating System Group Name** from the drop-down list.

11. Click **Next** to continue. In the Specify Home Details screen:

    a. Enter a name for this installation.

    b. Enter the full path to Oracle home directory. You can click **Browse** to navigate through the available directories to select a location for the Oracle home directory.

12. Click **Next** to continue. Enter your email address to receive security updates. If you want to receive security updates using My Oracle Support, select **I wish to receive security updates via My Oracle Support**, and then enter your My Oracle Support password.

13. Click **Next** to continue. In the Select Products Already Installed screen, select **Oracle Life Sciences Hub (Oracle LSH) Only**.

14. Click **Next** to continue. In the Oracle CDA Home Directory screen, enter the full path to Oracle CDA home.

    Oracle CDA home is the directory where the installer puts required installation and log files. It is a permanent directory, retained after installation. Oracle recommends that you create CDA home directory under APPL_TOP (sourced by the APPSORA.env file). For example,

    In Unix, <Path to APPL_TOP>/cda

15. Click **Next** to continue. In Enter Temporary Staging Area for the Domain File screen, do not modify the default location (the value of APPLPTMP). This is the temporary staging area from where OCDA_domain.zip will be loaded into the database.

16. Click **Next** to continue. In the Enter Database TNS Name screen, enter a Transparent Network Substrate (TNS) name.

17. Click **Next** to continue. In the Enter User Name for the Oracle Applications screen, enter a user name that you created as part of the Oracle Applications installation.

18. Click **Next** to continue. In the Enter Password for the Oracle Applications User Name screen, enter the password for the Oracle Applications user name you specified, and then confirm the password.

19. Click **Next** to continue. In the Enter User Name for Oracle LSH Application screen, enter an existing user name.

    You created this user as a prerequisite to installing OCDA.

20. Click **Next** to continue. In the Enter Password for the Oracle LSH Application User Name screen, enter the password for the Oracle LSH user name you specified, and then confirm the password.

21. Click **Next** to continue. In the Enter Password for the System User screen, enter the password for the System database user, and then confirm the password.

22. Click **Next** to continue. In the Enter Password for the RXI User screen, enter the password for the RXI user that is created as part of the installation.

23. Click **Next** to continue. In the Enter Data Tablespace Name screen, enter the name for an existing data tablespace that is used for the default tablespace of the RXI schema.

24. Click **Next** to continue. In the Enter Temporary Tablespace Name screen, enter the name for the temporary tablespace that is used for the RXI user.
25. Click **Next** to continue. Information screen reminds you to inspect log files. The following log files are generated in Unix environment:
26. Click **Next** to continue. On the Summary screen, review the information about your OCDA installation.
    - setup.txt, ocda_schema_creation.log, and error.txt in OCDA home directory
    - OCDA_domain_import.log in APPLPTMP directory.
27. Click **Install** to begin the installation.
28. Verify the log files.

After you have finished all the installation tasks, you must perform the post installation tasks listed in Chapter 3, Post Installation Tasks.

2.5 Installing Stand-alone Oracle Clinical Development Analytics on the Oracle Business Intelligence Enterprise Edition Server

To install stand-alone OCDA application on the OBIEE server on either Windows or UNIX, first follow platform specific instructions either in the section 2.5.1 or 2.5.2, and then follow common steps in the section 2.5.3.

2.5.1 Running Oracle Clinical Development Analytics Installer on Windows

1. Insert the CD labeled Oracle Clinical Development Analytics 2.0.0.1 into the CD-ROM drive.

   If you downloaded the OCDA media pack from the Oracle E-Delivery Web site, navigate to the directory where you downloaded and extracted the media.
2. Navigate to the following directory:

   ```
   software\Windows\install
   ```
3. Double-click **setup.exe** to launch the installer.

   The system opens the Welcome screen, which provides information about the Oracle Universal Installer and its options.

2.5.2 Running Oracle Clinical Development Analytics Installer on Unix

1. Insert the CD labeled Oracle Clinical Development Analytics 2.0.0.1 into the CD-ROM drive. Transfer the platform specific zip file on the disc to the Oracle LSH server. Extract the contents of the platform specific zip file.

   If you downloaded the OCDA media pack from the Oracle E-Delivery Web site, navigate to the directory where you downloaded and extracted the media pack. Locate the platform specific zip file. Transfer the platform specific zip file to the Oracle LSH server. Extract the contents of the platform specific zip file.
2. Assign 755 permissions to the contents of the install folder where the installer is unzipped

   ```
   chmod -R 755 <Path to directory where the installer is unzipped>
   ```
3. Navigate to the following directory:

```
install
```

4. Set the X Window display output to your local computer's IP address. For example:

```
C shell: setenv DISPLAY 123.45.67.89:01
```

5. Invoke the **runInstaller** executable to launch the installer.

```
./runInstaller
```

The installer opens the Welcome screen, which provides information about the Oracle Universal Installer and its options.

2.5.3 Performing Common Steps for Windows and Unix

1. Click **Next** to continue. In the Specify Home Details screen:
   a. Enter a name for this installation.
   b. Enter the full path to Oracle home directory. You can click **Browse** to navigate through the available directories to select a location for the Oracle home directory.
2. Click **Next** to continue. Enter your email address to receive security updates. If you want to receive security updates using My Oracle Support, select **I wish to receive security updates via My Oracle Support**, and then enter your My Oracle Support password.
3. Click **Next** to continue. In the Select Products Already Installed screen, select **Oracle Business Intelligence Enterprise Edition (OBIEE) Only**.
4. Click **Next** to continue. In the Oracle CDA Home Directory screen, enter the full path to Oracle CDA home.

   Oracle CDA home is the directory where the installer puts required installation and log files. It is a permanent directory, retained after installation. Oracle recommends that you create CDA home directory under APPL_TOP (sourced by the APPSORA.env file). For example,

   In Unix, <Path to APPL_TOP>/cda
5. Click **Next** to continue. In the Enter Oracle BI Directory screen, enter the full path to where the Oracle Business Intelligence Enterprise Edition (OBIEE) is installed.
6. Click **Next** to continue. In the Enter OBIEE Data Directory screen, enter the full path to where the Web Catalog files are stored.
7. Click **Next** to continue. In Select the Application Server to Use screen, select the application server you want.
8. Click **Next** to continue.
   - If you have selected OC4J as your application server, follow steps 9 to 12.
   - If you have selected WEBLOGIC as your application server, perform the following steps:
     a. In the Enter WebLogic Home Directory screen, enter the full path of the WebLogic home.

Important: WebLogic Home refers to the top-level directory where user_projects directory is created when you create a domain. For example, if user_projects directory is created as this location C:\Oracle\Middleware\user_projects, the WebLogic Home that you must enter is C:\Oracle\Middleware

---

b. Click **Next** to continue. In the Enter the Domain Name for WebLogic screen, enter the domain name where you want to deploy OCDA.

Important: Before you specify the domain name to deploy OCDA, ensure that you have already created the specified domain.

---

c. Follow steps 9 to 12.

9. Click **Next** to continue. Information screen reminds you to inspect log files. The following log files are generated in Windows environment:
   - In Windows environment, error.txt and setup.txt in OCDA home directory.
   - In Unix environment, setup.txt, ocda_schema_creation.log, and error.txt in OCDA home directory and OCDA_domain_import.log in APPLPTMP directory.
10. Click **Next** to continue. On the Summary screen, review the information about your OCDA installation.

    If you need to change any of the information, click **Back** to return to the appropriate screen and make the necessary changes.
11. Click **Install** to begin the installation.
12. Verify the log file.

After you have finished all the installation tasks, you must perform the post installation tasks listed in Chapter 3, Post Installation Tasks.

Note: In order to complete the installation on Oracle WebLogic Managed Server, perform steps listed in the Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server section (Chapter 3, Post Installation Tasks).

2.6 Installing Oracle Clinical Development Analytics on Combined Oracle Life Sciences Data Hub and Oracle Business Intelligence Enterprise Edition Server

To install the OCDA application on a combined Oracle LSH and OBIEE Server on UNIX:

1. Follow steps 1 through 10 in Section 2.4, Installing Oracle Clinical Development Analytics on the Oracle Life Sciences Data Hub Server on page 2-6.
2. Click **Next** to continue. In the Select Products Already Installed screen, select the **Oracle LSH and OBIEE Both** option.
3. Click **Next** to continue. In the Enter Oracle CDA Home Directory screen, enter the full path to Oracle CDA home.

Oracle CDA home is the directory where the installer puts required installation and log files. It is a permanent directory, retained after installation. Oracle recommends that you create CDA home directory under APPL_TOP (sourced by the APPSORA.env file). For example,

In Unix, <Path to APPL_TOP>/cda

4. Click **Next** to continue. In Enter Temporary Staging Area for the Domain File screen, do not modify the default location (the value of APPLPTMP). This is the temporary staging area from where OCDA_domain.zip will be loaded into the database.
5. Click **Next** to continue. In Select the Application Server to Use screen, select OC4J or WEBLOGIC as your application server.
6. Click **Next** to continue. In the Enter Oracle BI Directory screen, enter the full path to where the Oracle Business Intelligence Enterprise Edition (OBIEE) is installed.
7. Click **Next** to continue. In the Enter OBIEE Data Directory screen, enter the full path to where the Web Catalog files are stored.
8. Click **Next** to continue. In the Enter Database TNS Name screen, enter a Transparent Network Substrate (TNS) name.
9. Click **Next** to continue. In the Enter User Name for the Oracle Applications screen, enter a user name that you created as part of the Oracle Applications installation.
10. Click **Next** to continue. In the Enter Password for the Applications User Name screen, enter the password for the Oracle Applications user name you specified, and then confirm the password.
11. Click **Next** to continue. In the Enter User Name for Oracle LSH Application screen, enter an existing user name.

    You created this user as a prerequisite to installing OCDA.
12. Click **Next** to continue. In the Enter Password for the Oracle LSH Application screen, enter the password for the Oracle LSH user name you specified, and then confirm the password.
13. Click **Next** to continue. In the Enter Password for the System User screen, enter the password for the System database user, and then confirm the password.
14. Click **Next** to continue. In the Enter Password for the RXI User screen, enter the password for the RXI user that is created as part of the installation.
15. Click **Next** to continue. In the Enter Data Tablespace Name screen, enter the name for an existing data tablespace that is used for the default tablespace of the RXI schema.
16. Click **Next** to continue. In the Enter Temporary Tablespace Name screen, enter the name for the temporary tablespace that is used for the RXI user.
17. Click **Next** to continue.
    - If you have selected OC4J as your application server (in step 5), perform steps 18 to 21.
    - If you have selected WEBLOGIC as your application server (in step 5), perform the following steps:
      a. In the Enter WebLogic Home Directory screen, enter the path of the WebLogic home.

Important: WebLogic Home refers to the top-level directory where user_projects directory is created when you create a domain. For example, if user_projects directory is created as this location C:\Oracle\Middleware\user_projects, the WebLogic Home that you must enter is C:\Oracle\Middleware

b. Click **Next** to continue. In the Enter the Domain Name for WebLogic screen, enter the domain name where you want to deploy OCDA.

Important: Before you specify the domain name to deploy OCDA, ensure that you have already created the specified domain.

c. Perform steps 18 to 21.

18. Click **Next** to continue. Information screen reminds you to inspect log files. The following log files are generated in Unix environment:
19. Click **Next** to continue. On the Summary screen, review the information about your OCDA installation.
    - setup.txt, ocda_schema_creation.log, and error.txt in OCDA home directory
    - OCDA_domain_import.log in APPLPTMP directory.
20. Click **Install** to begin the installation.
21. Verify the log files.

After you have finished all the installation tasks, you must perform the post installation tasks listed in Chapter 3, Post Installation Tasks.

Note: In order to complete the installation on Oracle WebLogic Managed Server, perform steps listed in the Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server section (Chapter 3, Post Installation Tasks).

2.7 Installing Oracle Clinical Development Analytics on a Stand-alone Database Server

To install the OCDA application when the database is located on a separate server than Oracle LSH (split configuration):

1. Log in as owner of the Oracle Relational Database Management System (RDBMS) software.
2. Insert the CD labeled Oracle Clinical Development Analytics 2.0.0.1 into the CD-ROM drive. Transfer the platform specific zip file on the disc to the Oracle LSH server. Extract the contents of the platform specific zip file.

   If you downloaded the OCDA media pack from the Oracle E-Delivery Web site, navigate to the directory where you downloaded and extracted the media pack. Locate the platform specific zip file. Transfer the platform specific zip file to the Oracle LSH server. Extract the contents of the platform specific zip file.
3. Assign 755 permissions to the contents of the install folder where the installer is unzipped

```
chmod -R 755 <Path to directory where the installer is
unzipped>
```

4. Navigate to the following directory:

   ```
   install
   ```

5. Set the X Window display output to your local computer's IP address. For example:

   ```
    C shell: setenv DISPLAY 123.45.67.89:0l
   ```

6. Set the APPLPTMP environment variable to the value defined in init.ora.

   For example,

   a. Connect to the LSH/CDA database as sysdba.

   b.
   ```
   @show parameter utl
   Utl_file_dir     /usr/tmp
   ```

   c.
   ```
   @export APPLPTMP=/usr/tmp
   ```

7. Invoke the **runInstaller** executable to launch the installer.

   ```
   ./runInstaller
   ```

   The installer opens the Welcome screen, which provides information about the Oracle Universal Installer and its options.

8. Click **Next** to continue. In the Specify Home Details screen:

   a. Enter a name for this installation.

   b. Enter the full path to Oracle home directory. You can click **Browse** to navigate through the available directories to select a location for the Oracle home directory.

9. Click **Next** to continue. Enter your email address to receive security updates. If you want to receive security updates using My Oracle Support, select **I wish to receive security updates via My Oracle Support**, and then enter your My Oracle Support password.

10. Click **Next** to continue. In the Select Products Already Installed screen, select **Oracle Life Sciences Hub (Oracle LSH) Only**.

11. Click **Next** to continue. In the Oracle CDA Home Directory screen, enter the full path to Oracle CDA home.

    Oracle CDA home is the directory where the installer puts required installation and log files. It is a permanent directory, retained after installation. Oracle recommends that you create CDA home directory under the ORACLE_HOME. For example,

    In Unix, <Path to ORACLE_HOME>/cda

12. Click **Next** to continue. In Enter Temporary Staging Area for the Domain File screen, enter the full path of the temporary staging area from where OCDA_ domain.zip will be loaded into the database.

    This is a temporary directory where the installer will copy a file that needs to be loaded into the Oracle Database. Enter a valid location. Ensure that this directory has full permission for processes to read/write to this directory. The Oracle database must also have access to this directory so that it can read/write. It is necessary that you set up this directory in the database init.ora settings. Also,

create $APPLPTMP variable, defined at Operating System level, pointing to the just created temporary directory.

13. Click **Next** to continue. In the Enter Database TNS Name screen, enter a Transparent Network Substrate (TNS) name.
14. Click **Next** to continue. In the Enter User Name for the Oracle Applications screen, enter a user name that you created as part of the Oracle Applications installation.
15. Click **Next** to continue. In the Enter Password for the Oracle Applications User Name screen, enter the password for the Oracle Applications user name you specified, and then confirm the password.
16. Click **Next** to continue. In the Enter User Name for Oracle LSH Application screen, enter an existing user name.

    You created this user as a prerequisite to installing OCDA.
17. Click **Next** to continue. In the Enter Password for the Oracle LSH Application User Name screen, enter the password for the Oracle LSH user name you specified, and then confirm the password.
18. Click **Next** to continue. In the Enter Password for the System User screen, enter the password for the System database user, and then confirm the password.
19. Click **Next** to continue. In the Enter Password for the RXI User screen, enter the password for the RXI user that is created as part of the installation.
20. Click **Next** to continue. In the Enter Data Tablespace Name screen, enter the name for an existing data tablespace that is used for the default tablespace of the RXI schema.
21. Click **Next** to continue. In the Enter Temporary Tablespace Name screen, enter the name for the temporary tablespace that is used for the RXI user.
22. Click **Next** to continue. Information screen reminds you to inspect log files. The following log files are generated in Unix environment:
23. Click **Next** to continue. On the Summary screen, review the information about your OCDA installation.
    - setup.txt, ocda_schema_creation.log, and error.txt in OCDA home directory
    - OCDA_domain_import.log in the directory selected in step 12.
24. Click **Install** to begin the installation.
25. Verify the log files.

After you have finished all the installation tasks, you must perform the post installation tasks listed in Chapter 3, Post Installation Tasks.

3

Post Installation Tasks

This chapter describes post installation tasks that you must complete before you begin to use the OCDA. This chapter includes the following topics:

- Locating and Downloading the OCDA Patches on page 3-1
- Setting Up Service Locations on page 3-4
- Setting Up Remote Locations in Oracle Life Sciences Data Hub on page 3-5
- Configuring Oracle Business Intelligence Enterprise Edition on page 3-7
- Setting Up the Source System on page 3-8
- Setting Oracle Clinical Development Analytics Repository Password on page 3-8
- Handling Deletion in Oracle's Siebel Clinical on page 3-10
- Loading Oracle Clinical Development Analytics Seed Tables on page 3-11
- Scheduling and Executing Extract Transform Load Jobs on page 3-11
- Deploying the Oracle Clinical Development Analytics RPD on page 3-11
- Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server on page 3-11

3.1 Locating and Downloading the OCDA Patches

To locate and download the OCDA patches:

3.1.1 Locating and downloading the OCDA 2.0.0.1 patch

1. Sign in to My Oracle Support at `http://support.oracle.com`.
2. Click the **Patches & Updates** tab.

   The Patches & Updates page opens and displays the Patch Search region. You have the following options:

   - In the Patch ID or Number is field, enter the primary bug number 10152154.
3. Click **Search** to execute your query. The Patch Search Results page opens.
4. Click the patch ID number. The system displays details about the patch. In addition, you can view the Read Me file before downloading the patch.
5. Click **Download**. Follow the instructions on the screen to download and save the patch file.
6. Transfer the patch zip file to the necessary servers.

7. Oracle recommends that you create a folder called cda_2.0.0.1 under the original location where you installed CDA, and unzip the patch zip file in the temporary staging location. This extracts the following files:
   - readme_ocda2_0_0_1.htm
   - OCDA_domain_2.0.0.1.zip
   - OracleClinicalDevelopmentAnalytics.zip
   - help.zip
   - ocda_src_config.sql
8. On the Oracle LSH database server, navigate to the directory where OCDA_domain.zip and other files are placed.
9. Copy and replace the new files from cda_2.0.0.1 into this directory. This replaces the older version files.

3.1.2 Locating and downloading the OCDA 2.0.0.2 patch

1. Download the patch for 2.0.0.2 with the primary bug number 11731102. Follow step 1 to step 6 in the Section 3.1.1Locating and downloading the OCDA 2.0.0.1 patch on page 1to download the patch.

   Oracle recommends that you create a folder called cda_2.0.0.2 under the original location where you installed CDA, and unzip the patch zip file in the temporary staging location. This extracts the following files:
   - readme_ocda2_0_0_2.htm
   - OCDA_domain_2.0.0.2.zip
   - help.zip
   - ocda_src_config.sql
   - ocda_ddl_pmerr_table_creation.sql
   - ocda_ddl_view_siebel_8.1.1.sql
   - ocda_ddl_synonym_siebel_8.1.1.sql
   - ocda_ddl_non_lsh_tables.sql
   - ocda_sc_del_trigger.sql
2. On the Oracle LSH database server, navigate to the directory where OCDA_domain.zip and other files are placed.
3. Copy and replace the new files from cda_2.0.0.2 into this directory. This replaces the older version files.

Before installing the patch, you must create error logging tables that are used by Informatica and views atop Siebel Clinical 8.0.x.

Creating Informatica Error Logging and Oracle Clinical Development Analytics Auxiliary Tables

To create error logging and auxiliary tables:

1. Log in to LSH database as Apps user.
2. At the SQL prompt, enter:

```
@ocda_ddl_pmerr_table_creation.sql
```

The execution of this script creates four error logging tables used by Informatica.

3. At the SQL prompt, enter:

   ```
   @ocda_ddl_non_lsh_tables.sql
   ```

   The execution of this script creates auxiliary tables required for OCDA.

Creating Views Atop Siebel Clinical 8.0.x

If your Siebel Clinical version is below 8.1.1, you must create view atop Siebel Clinical 8.0.x.

Following are the prerequisites for creating views:

- Create a user <OCDA_SC_SRC> with grants for connect, resource, create any synonym, and create any view privileges.
- The user who is executing this script should have the create view privilege for the <OCDA_SC_SRC> schema.
- The user <OCDA_SC_SRC> should have privileges to select data from the Siebel source tables listed in the script.
- <OCDA_SC_SRC> schema login is used in the load set OCDA_SC_OLTP_RL which reads Siebel data.

1. Log in to Siebel Clinical source database.
2. At the SQL prompt, enter:

   ```
   @ocda_ddl_view_siebel_8.1.1.sql
   ```

   The execution of this script creates views atop Siebel Clinical.

Creating Synonyms Atop Siebel Clinical 8.0.x

You should use synonym creation script only if:

- You have used the ocda_ddl_view_siebel_8.1.1.sql script to create views, so that rest of the tables needed are created as synonym.
- You would like to create a separate schema and restrict access to selected data from the Siebel tables.

Following are the prerequisites for creating synonyms:

- Create a user <OCDA_SC_SRC> with grants for connect, resource, create any synonym, and create any view privileges.
- The user who is executing this script should have the create synonym privilege for the <OCDA_SC_SRC> schema.
- The user <OCDA_SC_SRC> should have privileges to select data from the Siebel source tables listed in the script.
- <OCDA_SC_SRC> schema login is used in the load set OCDA_SC_OLTP_RL which reads Siebel data.

To create synonyms atop Siebel Clinical 8.0.x:

1. Log in to Siebel Clinical source database.
2. At the SQL prompt, enter:

   ```
   @ocda_ddl_synonym_siebel_8.1.1.sql
   ```

   The execution of this script creates synonyms atop Siebel Clinical.

3.2 Setting Up Service Locations

The following services must be available in OCDA:

- OBIEE services
- Informatica service

See Also:

- *Oracle Life Sciences Data Hub System Administrator's Guide* (Defining Service Locations section in Chapter 1, Setting Up Services), for more information on setting up service locations in Oracle LSH.
- *Oracle Life Sciences Data Hub Installation Guide* (Integrating Informatica with the Oracle Life Sciences Data Hub section in Chapter 8, Integrating with Other Systems), for more information on setting up Informatica services in Oracle LSH.

Perform the following steps to confirm which services are shipped with OCDA:

You use Oracle LSH to set up the services for OCDA. To log in to Oracle LSH, you must have a Web browser on your computer and the URL, user name, and password provided by your company.

1. Log in to Oracle LSH:
   a. Open your Web browser.
   b. Enter the URL provided by your company.
   c. Login as a user with LSH System Administrator role.
2. Click the **Life Sciences Data Hub** link. The system displays all the screens to which you have security access.
3. Click **Applications.** The system opens the Applications tab.
4. Click the **Select Domain** field, and enter `OCDA_domain`.
5. Click **Go.** The Application Area displays its associated Work Areas.
6. Expand **OCDA_OBIEE_CODE_APP_AREA.**
7. Expand **OCDA_OBIEE_WA.**
8. Click **OCDA Data Warehouse.**
9. Look in the Attributes section and write down the OBIEE Service Location Name.
10. Create an OBIEE Service Location with the same name as given in the previous step. There are three types of OBIEE services; OBIEE Business Area Install Service, OBIEE Business Area Deploy Service, and OBIEE Business Area IDE Service. You must create all three. If you want to specify a different name for the service location, do the following:
    a. Check out the business area.
    b. Update the service location name.

Caution: Ensure that the Informatica Distributed Processing (DP) Server is up and running. For more information on setting up DP Server in Oracle LSH, refer to *Oracle Life Sciences Data Hub System Administrator's Guide* (Setting Up the Distributed Processing Server section in Chapter 1, Setting Up Services.

3.3 Setting Up Remote Locations in Oracle Life Sciences Data Hub

OCDA installs a default domain OCDA_domain. You must configure remote locations on this domain. The following are the remote locations:

- OCDA_OC_OLTP_RL is the remote location using which you connect to the source Oracle Clinical database to extract data. Configure this remote location, if you use Oracle Clinical as your data source.
- OCDA_SC_OLTP_RL is the remote location using which you connect to the source Siebel Clinical database to extract data. Configure this remote location, if you use Siebel Clinical as your data source.
- OCDA_CUSTOM_OLTP_RL is the remote location to RXI schema, which has OCDA-specific tables. Irrespective of the data source, configure this remote location.

3.3.1 Configuring Remote Locations for Passthrough Views

To configure the remote location OCDA_OC_OLTP_RL:

1. Click the **Remote Location** subtab under the Administration tab. The Maintain Remote Locations screen opens.
2. Click **Add Remote Location**. The Create Remote Location screen appears.
3. Enter values in the following fields:
   - Enter `OCDA_OC_OLTP_RL` as **Remote Location Name**.
   - **Description**. Enter a description of the Remote Location.
   - **DBLINK Prefix**. The name of the database link. If another DBLINK Prefix with the same name exists in the database, the system adds an additional string to make it unique. The DBLINK_NAME is usually the global name or the TNS name of the remote database.
   - **Connect String**. The name of the string that Oracle LSH must use in the USING clause of the create database link SQL statement. Connect string has following format:

     ```
     ((DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=hostname)(PORT=
     dbportnumber))(CONNECT_DATA=(SID=dbsid))))
     ```

   - **Adapter**. Select **Oracle Tables and Views** from the drop-down list.
4. Click **Apply**.

Repeat the above steps to configure the OCDA_SC_OLTP_RL and OCDA_CUSTOM_OLTP_RL remote locations.

See Also:

Oracle Life Sciences Data Hub System Administrator's Guide (Chapter 6, Registering Locations and Connections), for more information on registering locations and connections in Oracle LSH.

3.3.2 Configuring Connections

Once the remote location is created, add connections to the remote location.

To add connections to the remote location:

1. In the main screen for the Remote Location for which you want to create a Connection, click **Create Connection**. The Connection Maintenance screen opens.

2. Click **Create Connection**. The Create Connection screen appears.
3. Enter values in the following fields:

Table 3–1 Connections for OCDA_OC_OLTP_RL

Name	User Name	Password
RXC	RXC	Password to access the RXC schema in Oracle Clinical.
RXA_DES	RXA_DES	Password to access the RXA_ DES schema in Oracle Clinical.
OPA	OPA	Password to access the OPA schema in Oracle Clinical.

Table 3–2 Connections for OCDA_SC_OLTP_RL

Name	User Name	Password
siebel	siebel	Password to access the Siebel Clinical schema.

Note: If you have used either the view creation script or the synonym creation script, you must use the same user who is the owner of the schema for setting OCDA_SC_OLTP_RL.

Table 3–3 Connections for OCDA_CUSTOM_OLTP_RL

Name	User Name	Password
RXI	RXI	Password to access the RXI schema.

4. Click **Apply**.
5. Repeat for each connection.

3.3.3 Configuring Load Set Attributes

Perform the following steps in Oracle LSH to configure load set attributes for OCDA_ OC_OLTP_RL:

1. Navigate to the OCDA_SOURCES_APP_AREA.
2. Click **OCDA_OC_DATA_WA** work area.
3. Click **OCDA_OC_RXA_DES_LS** load set.
4. Click **Check Out**.
5. Click **Apply**.
6. In the Load Set Attributes section, click **Update**.
7. Click the Search icon for **Remote Location** field.
8. Select **OCDA_OC_OLTP_RL/RXA_DES**.
9. Click **Apply**.
10. Repeat step 4 to step 7 for OCDA_OC_RXC_LS.

11. Select **OCDA_OC_OLTP_RL/RXC**.
12. Click **Apply**.
13. Reinstall the work area containing the load set and passthrough views.

Perform the following steps in Oracle LSH to configure load set attributes for OCDA_SC_OLTP_RL:

1. Navigate to the OCDA_SOURCES_APP_AREA.
2. Click **OCDA_SC_DATA_WA** work area.
3. Click **OCDA_SC_LS** load set.
4. Click **Check Out**.
5. Click **Apply**.
6. In the Load Set Attributes section, click **Update**.
7. Click the Search icon.
8. Select **OCDA_SC_OLTP_RL/SIEBEL**.
9. Click **Apply**.
10. Reinstall the work area containing the load set and passthrough views.

Perform the following steps in Oracle LSH to configure load set attributes for OCDA_CUSTOM_OLTP_RL:

1. Navigate to the OCDA_SOURCES_APP_AREA.
2. Click **OCDA_CUSTOM_TABLE_WA** work area.
3. Click **OCDA_RXI_LS** load set.
4. Click **Check Out**.
5. Click **Apply**.
6. In the Load Set Attributes section, click **Update**.
7. Click the Search icon.
8. Select **OCDA_CUSTOM_OLTP_RL/RXI**.
9. Click **Apply**.
10. Reinstall the work area containing the load set and passthrough views.

See Also:

Oracle Life Sciences Data Hub Application Developer's Guide (Chapter 12, Using, Installing, and Cloning Work Areas), for more information on using, installing, and cloning work areas.

3.4 Configuring Oracle Business Intelligence Enterprise Edition

To configure the OBIEE application, you must:

1. Add an entry to the `NQSConfig.ini` file for the OCDA repository file. The `NQSConfig.ini` file is located at `OracleBI/server/Config/`.

   For more information on integrating with other systems, refer to *Oracle Life Sciences Data Hub Installation Guide* (Chapter 8, Integrating with Other Systems).

2. Edit the `instanceconfig.xml` file to point its *CatalogPath* entry to the Web Catalog of OCDA.

   For more information on administering the Oracle BI Presentation Catalog, refer to *Oracle Business Intelligence Presentation Services Administration Guide*.

   For more information on setting up the OBIEE Admin tool, refer to *Oracle Life Sciences Data Hub Application Developer's Guide* (Defining Oracle Business Intelligence Business Areas section in Chapter 11, Defining Business Areas for Visualizations).

3.5 Setting Up the Source System

By default, OCDA is configured to use both Oracle Clinical and Oracle's Siebel Clinical as the data source. If you want to use *only* Oracle Clinical or *only* Siebel Clinical as a single data source, perform the following steps:

1. In Oracle LSH, navigate to **OCDA_domain** > **OCDA_CODE_APP_AREA**.
2. Click **OCDA_UTIL_WA**.
3. Click **Installation**.
4. In the Work Area Install screen, select the following options:
   - Install Mode: **Full**
   - Install Option: **Force Script Re-generation**
5. In Work Area Objects, click **Omit None**.
6. Click **Apply and Install**.
7. Log in to the Oracle LSH database server as an apps user, navigate to the directory where *ocda_src_config.sql* is placed.
8. Run the following command:

   ```
   sqlplus apps/<apps_password>@<DB_INSTANCE> @ocda_config_
   src.sql
   ```

   This prompts you to enter the following information:

   - User Name: Enter the LSH application user account as created in the Creating an Oracle Life Sciences Data Hub User Account section on page 1-8.
   - Password: Enter the LSH application user account password as created in the Creating an Oracle Life Sciences Data Hub User Account section on page 1-8.
   - Source System: Enter the source system ID to disable. The possible values are:

     ```
     1 - ORACLE CLINICAL
     2 - SIEBEL CLINICAL
     ```

     Note: If you disable one of the source systems and apply any OCDA patch, an error is displayed because system is not able to find objects of the disabled source system.

3.6 Setting Oracle Clinical Development Analytics Repository Password

The default Administrator password for the OCDA repository file (rpd) is *SADMIN*. To set this default password in the deployed repository file, you must ensure that you

set the Administrator password as SADMIN in Oracle LSH under the OBIEE Remote Location. To do this, perform the following tasks:

1. Create an OBIEE Remote Location in Oracle LSH. Perform steps listed in Section 3.6.1, Creating an OBIEE Remote Location.

   IMPORTANT: The Remote Location name must have the same name as the OBIEE service location name set up in the Setting Up Service Locations section.

2. Create an OBIEE Remote Location Connection and set the Administrator password as `SADMIN`. Perform steps listed in Section 3.6.2, Creating an OBIEE Remote Location Connection.

3. Navigate to **OCDA_domain** > **OCDA_OBIEE_CODE_APP_AREA** > **OCDA_OBIEE_WA**, and install **OCDA Data Warehouse**.

You can use Oracle LSH to change the Administrator password once you have deployed the repository file. To do this, perform the following tasks:

1. Use the Oracle BI Administration tool to change the Administrator password in the deployed repository file.

2. Use Oracle LSH to update the new password in the OBIEE Remote Location Connection.

3. Use Oracle LSH to update the new password in the repository file stored in OCDA Business Area. For more information about modifying the OCDA repository file, refer to *Oracle Clinical Development Analytics User and Administrator Guide* (Chapter 4, Maintaining the Repository and Warehouse).

> **Note:** If you use the Oracle BI Administration tool to make any changes to the repository including changes to the Administrator account password, you must manually upload that modified repository into Oracle LSH. If you do not upload the modified repository, changes are lost the next time you install the OCDA Business Area.

3.6.1 Creating an OBIEE Remote Location

Perform the following steps in Oracle LSH to define a Remote Location:

1. Click the **Remote Location** subtab under the Administration tab. The Maintain Remote Locations screen opens.

2. Click **Add Remote Location**. The Create Remote Location screen appears.

3. Enter values in the following fields:

   - **Name**. Enter the exact same name you have given for the OBIEE service location.
   - **Description**. Not required.
   - **DBLINK Prefix**. Enter any value. The system does not use this value.
   - **Connect String**. Enter any value. The system does not use this value.
   - **Adapter**. Select **OBIEE** from the drop-down list.
   - **Conversion Multiplier**. Do not enter a value.

4. **Classification**: The system does not use these values.

5. Click **Apply** to save your work. The system opens the main screen for the new Remote Location.

   By default, the Remote Location inherits the user group assignments of the Adapter Area.

3.6.2 Creating an OBIEE Remote Location Connection

For each OBIEE Remote Location, create a Remote Connection.

Perform the following steps in Oracle LSH to define a Connection:

1. In the main screen for the Remote Location for which you want to create a Connection, click **Create Connection**. The Create Connection screen opens.
2. Enter values in the following fields:
   - **Name**. Enter a name for the Connection.
   - **Description**. Not required.
   - **User Name**. Enter `Administrator`.
   - **Password**. Enter `SADMIN` as the password. Oracle LSH encrypts the password for security.
   - **Connection Type**. The system does not use this value.
   - **Remote Location**. The system populates the field with the name of the Remote Location for which you are defining this Connection.
3. **Classification**: The system does not use these values.
4. Click **Apply** to save your work. The system displays the main screen for the new Connection.

See Also:

- *Oracle Life Science Data Hub System Administrator's Guide* (Creating an OBIEE Remote Location and Connection for RPD Password Security)
- *Oracle Clinical Development Analytics User and Administrator Guide* (Chapter 6, Implementing Security), for more information on implementing security in OCDA.

3.7 Handling Deletion in Oracle's Siebel Clinical

For information on how to handle deletion of records in Siebel Clinical, refer to *Oracle Clinical Development Analytics User and Administrator Guide* (Chapter 5, Extract Transform Load Programs).

If Siebel clinical is one of your source and you are not handling deletions perform the following steps in Oracle LSH to configure load set attributes for OCDA_CUSTOM_OLTP_RL:

1. Navigate to the OCDA_SOURCES_APP_AREA.
2. Click **OCDA_DELETE_LOG_TABLE_WA** work area.
3. Click **OCDA_RXI_DELETE_LS** load set.
4. Click **Check Out**.
5. Click **Apply**.
6. In the Load Set Attributes section, click **Update**.

7. Click the Search icon.
8. Select **OCDA_CUSTOM_OLTP_RL /RXI**.
9. Click **Apply**.
10. Reinstall the work area containing the load set and passthrough views.

3.8 Loading Oracle Clinical Development Analytics Seed Tables

Log in to the Oracle LSH database using the rxi account, and run the OCDA_W_RXI_LOV_S_seed.sql script from the temporary staging location.

This script inserts seed data into the W_RXI_LOV_S table.

3.9 Scheduling and Executing Extract Transform Load Jobs

Note: Ensure that each ETL program has a default Execution Setup.

For information on scheduling and executing Extract, Transform, and Load (ETL) jobs, refer to *Oracle Clinical Development Analytics User and Administrator Guide* (Chapter 5, Extract Transform Load Programs).

3.10 Deploying the Oracle Clinical Development Analytics RPD

Note: Ensure that ETL is executed and warehouse has requisite data before you deploy the RPD.

1. Ensure that OBIEE DP server is up and running.
2. Navigate to **OCDA_domain** > **OCDA_OBIEE_CODE_APP_AREA** > **OCDA_OBIEE_WA**
3. Install the OCDA_OBIEE_WA work area in Full mode.

3.11 Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server

You need to manually deploy OCDA's help and images files on Oracle WebLogic Managed Server. Perform the following steps:

1. Stop the Oracle WebLogic Server.
2. Navigate to <OBIEE_HOME>\web and extract analytics.war to the same location.

   <OBIEE_HOME> is the OBIEE installation folder.
3. In a temporary staging location, unzip the help and images files.
4. Copy the help and images folders to the following locations:
   - <OBIEE_HOME>\web\app\res\s_oracle10
   - <OBIEE_HOME>\web\analytics\res\s_oracle10
5. Start Administration Server for Oracle WebLogic Server Domain.

6. Start Node Manager.
7. Launch Admin Serve Console.

   This opens the Oracle WebLogic Server Administration Console.
8. Log in to Oracle WebLogic Server Administration Console.
9. In the left pane of the Administration Console, select **Deployments**.
10. In the right pane, click **Install**.

    This opens the Install Application Assistant.
11. In Path, enter the path as `<OBIEE_HOME>\web`

    where:

    <OBIEE_HOME> is the OBIEE installation folder.
12. Select **analytics** and click **Next**.
13. In Choose targeting style, select **Install this deployment as an application** and click **Next**.
14. In Available targets for analytics, select the servers in the cluster on which you want to deploy OCDA.
15. Click **Next**.
16. In the General section, enter the name of this deployment as `analytics`.
17. In the Security section, select **DD Only: Use only roles and policies that are defined in the deployment descriptors**.
18. In the Source accessibility section, select **I will make the deployment accessible from the following location**, and enter the following path in Location:

    `<OBIEE_HOME>\web\analytics`
19. Click **Next**.
20. Select **Yes, take me to the deployment's configuration screen** and click **Finish**.
21. Start all the servers in the clusters.
22. Start the following servers:
    - Oracle BI Java Host
    - Oracle BI Presentation Server
    - Oracle BI Server
23. Select the **analytics** deployment.
24. Click the **Testing** tab.

    The Test Point column lists the links.
25. Click on all the links in the Test Point column.

See Also:

- *Oracle WebLogic Server Documentation Library*

4

Upgrade Tasks

This chapter describes OCDA upgrade tasks that you must complete before you begin to use the OCDA. This chapter includes the following topics:

- Upgrading OCDA 2.0 to OCDA 2.0.0.1 on page 4-1
- Upgrading OCDA 2.0.0.1 to OCDA 2.0.0.2 on page 4-6

4.1 Upgrading OCDA 2.0 to OCDA 2.0.0.1

You must install the OCDA Release 2.0.0.1 as a patch to OCDA Release 2.0.

4.1.1 Installing the 2.0.0.1 Patch

To install the patch:

1. Log in to Oracle LSH as a user who can execute ETL Programs.

   For more information, refer to *Oracle Clinical Development Analytics User and Administrator Guide Release 2.0.0.1* (Security).

2. Is there is an existing version of OCDA 2.0 up and running,
   - Yes. Go to step 3.
   - No. Go to step 4.
3. Perform the following steps for `OCDA_INFA_Geo_Dim_SIL_PRG`:
   a. Navigate **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_WORK_AREA**.
   b. Click the *OCDA_INFA_Geo_Dim_SIL_PRG* hyperlink.
   c. Click **Submit**.
   d. Enter the following information in Submission Details:
      – Submission Type: **Backchain**
      – Force Execution: **Yes**
   e. Click **Submit**.
   f. Navigate to the LSH Home Page.
   g. Click the Job ID of the program you submitted in backchain in step b.

      This opens the Job Execution Details page of the job.
   h. Click **Cancel Job**.

Similarly, repeat steps a to h for each of the following programs.

- OCDA_INFA_LOV_Dim_SIL_PRG
- OCDA_INFA_Party_Dim_SIL_PRG
- OCDA_INFA_Party_Per_Dim_SIL_PRG
- OCDA_INFA_Party_Org_Dim_SIL_PRG
- OCDA_INFA_User_Dim_SIL_PRG
- OCDA_INFA_CRF_Book_Dim_SIL_PRG
- OCDA_INFA_CRF_Dim_SIL_PRG
- OCDA_INFA_Employee_Dim_SIL_PRG
- OCDA_INFA_Product_Dim_SIL_PRG
- OCDA_INFA_Program_Dim_SIL_PRG
- OCDA_INFA_Site_Dim_SIL_PRG
- OCDA_INFA_Study_Dim_SIL_PRG
- OCDA_INFA_Study_Region_Dim_SIL_PRG
- OCDA_INFA_Study_Site_Dim_SIL_PRG
- OCDA_INFA_Study_Subject_Dim_SIL_PRG
- OCDA_INFA_Validation_Procedure_SIL_PRG

4. On the Oracle LSH database server, create a directory and set the permissions on the directory to 777.

   This directory will be used to copy the patch related files and will also contain the patch installation log files.

5. Log in to Oracle LSH database using the apps account and create a database directory on the Oracle LSH database.

   For example,

   ```
   create or replace directory CDA_PATCH_IMP as <db directory>;
   ```

   where

   <db directory> is the directory created in step 4.

6. Log out of the Oracle LSH database.

7. Copy the extracted OCDA_domain_2.0.0.1.zip from the temporary staging location to the directory created in step 5.

8. Copy the cdrruwainstall.sql and cdrruimport.sql from $CDR_TOP/patch/115/sql/ to the parent directory of the directory created in step 5. For example, if the database directory created in step 5 is /home/cdapatch_2001, copy the files to /home

   Note: If Oracle LSH Application server is on a separate physical machine, copy the cdrruwainstall.sql and cdrruimport.sql files from the Oracle LSH Application server to the Oracle LSH Database server.

9. Navigate to the directory where OCDA_domain_2.0.0.1.zip is placed, and run the following command:

```
sqlplus apps/<apps_password>@<DB_INSTANCE>
@../cdrruimport.sql <LSH_APPL_USER> <DB_DIRECTORY> OCDA_
domain_2.0.0.1.zip MANUAL_COMMIT
```

where

<DB_INSTANCE> is the service name for the database where Oracle LSH is installed.

<LSH_APPL_USER> is the LSH user account as created in the Creating an Oracle Life Sciences Data Hub User Account on page 1-8.

<DB_DIRECTORY> is the logical DB directory name mapped to the Operating System (OS) directory containing the OCDA_domain_2.0.0.1.zip to be imported.

Note: Use the ocda_domain_import.log file to verify if the script has executed successfully.

10. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_OC_DATA_WA** and ensure that the following connections are set in Oracle LSH:

Table 4–1 Connections in Oracle LSH

Remote Connection	Load Set
OCDA_OC_OLTP_RL/OPA	OCDA_OC_OPA_LS
OCDA_OC_OLTP_RL/RXA_DES	OCDA_OC_RXA_DES_LS
OCDA_OC_OLTP_RL/RXC	OCDA_OC_RXC_LS

For more information about setting up remote locations in Oracle LSH, refer to *Oracle Clinical Installation Guide Release 2.0.0.1* (Post Installation Tasks)

11. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_SC_DATA_WA** and ensure that the following connections are set in Oracle LSH:

Table 4–2 Connections in Oracle LSH

Remote Connection	Load Set
OCDA_SC_OLTP_RL/SIEBEL	OCDA_SC_LS

Note: If you have used either the view creation script or the synonym creation script, you must use the same user who is the owner of the schema for setting OCDA_SC_OLTP_RL.

Note: If Siebel clinical is one of your sources, follow the section Handling Deletion in Oracle's Siebel Clinical on page 3-10

12. Navigate to **OCDA_domain** > **OCDA_CODE_APP_AREA** >**OCDA_SDE_SC_WORK_AREA** and ensure that the following connections are set in Oracle LSH:

Table 4–3 Connections in Oracle LSH

Remote Connection	Load Set
OCDA_SC_OLTP_RL/SIEBEL	OCDA_S_PARTY_LS

Note: If you have used either the view creation script or the synonym creation script, you must use the same user who is the owner of the schema for setting OCDA_SC_OLTP_RL.

Note: If Siebel clinical is one of your sources, follow the section Handling Deletion in Oracle's Siebel Clinical on page 3-10

13. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_CUSTOM_TABLE_WA** and ensure that the OCDA_CUSTOM_OLTP_RL/RXI remote connection is set for OCDA_RXI_LS load set.

Caution: Ensure that the Informatica Distributed Processing (DP) Server is up and running. For more information on setting up DP Server in Oracle LSH, refer to *Oracle Life Sciences Data Hub System Administrator's Guide* (Setting Up the Distributed Processing Server section in Chapter 1, Setting Up Services.

14. If this is a fresh installation of OCDA,
    - Yes. Go to step 15.
    - No. Go to step 16.
15. Before you run the work area install script, install the following work areas manually in Full mode in the given order:

    In **OCDA_domain** > **OCDA_SOURCES_APP_AREA**:

    1. **OCDA_CUSTOM_TABLE_WA**
    2. **OCDA_DELETE_LOG_TABLE_WA**
    3. **OCDA_DWH_PASS_THROUGH_WA**
    4. **OCDA_CONTROL_TABLE_WA**

    In **OCDA_domain** > **OCDA_CODE_APP_AREA**:

    1. If you have used the ocda_config_src.sql script to disable any of the source systems:

       If you have disabled Oracle Clinical, do not install OCDA_SDE_OC_WORK_AREA.

       If you have disabled Siebel Clinical, do not install

       OCDA_SDE_SC_WORK_AREA.
    2. **OCDA_POOL_WORK_AREA**
    3. **OCDA_WORK_AREA**

       Perform the following steps for OCDA_WORK_AREA:

a. Navigate to **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_WORK_AREA** > **OCDA_ETL_RUN_S_POP_PRG**.

b. Click **Check Out**. The Check Out screen appears.

c. Select **Check out existing definition** and click **Apply**.

d. In the Source Code subtab of OCDA_CTRL_TABLE_RET_PKG_SRC.sql, click **Remove**.

e. In the Source Code subtab of OCDA_CTRL_TABLE_RET_PKG_SRC.sql, click **Add**. The system displays the Create Source Code screen.

f. Select **Create an instance of an existing Source Code definition**.

g. Select **Yes** for Static Reference.

h. Click the Search icon for the Definition Source field.

i. Browse and add the definition source for OCDA_CTRL_TABLE_RET_PKG_SRC.sql from **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_CONTROL_TABLE_WA** > **OCDA_CONTROL_TABLE_RETRIEVE_PRG**.

j. Install OCDA_WORK_AREA work area in Full mode.

In **OCDA_domain** > **OCDA_UTIL_APP_AREA**:

1. **OCDA_SHARED_PROGRAM_WA**
2. **OCDA_ETL_WORKFLOW_WA**

16. Navigate to the work area specified and select all the objects that are checked out and click **Install**:

    Tip: You can identify the checked out object in the Work Area screen. Their latest version will be greater than the installed version.

Table 4–4 List of Objects

Name	Object Type	Path
OCDA_UTIL_APP_AREA	Application Area	OCDA_domain
OCDA_WORK_AREA	Work Area	OCDA_domain > OCDA_CODE_APP_AREA
OCDA_SDE_SC_WORK_AREA	Work Area	OCDA_domain > OCDA_CODE_APP_AREA
OCDA_SDE_OC_WORK_AREA	Work Area	OCDA_domain > OCDA_CODE_APP_AREA
OCDA_CONTROL_TABLE_WA	Work Area	OCDA_domain > OCDA_SOURCES_APP_AREA
OCDA_OBIEE_WA	Work Area	OCDA_domain > OCDA_OBIEE_CODE_APP_AREA
OCDA_POOL_WORK_AREA	Work Area	OCDA_domain > OCDA_CODE_APP_AREA

17. On the Oracle LSH database server, navigate to the directory where OCDA_domain_2.0.0.1.zip is placed (directory created in step 3), and run the following work area (WA) install script:

```
sqlplus apps/<apps_password>@<DB_INSTANCE>
@../cdrruwainstall.sql <LSH_APPL_USER> <DB_DIRECTORY> OCDA_
domain_2.0.0.1.zip
```

where:

<*DB_INSTANCE*> is the service name for the database where Oracle LSH is installed.

<*LSH_APPL_USER*> is the LSH user account as created in the Creating an Oracle Life Sciences Data Hub User Account on page 1-8.

<*DB_DIRECTORY*> is the logical DB directory name mapped to the Operating System (OS) directory containing the OCDA_domain_2.0.0.1.zip to be imported.

Note: Use the ocda_domain_import.log file to verify if the script has executed successfully.

Gathering Schema Statistics

After you have successfully run the WA install script, run the *Gather Schema Statistics* concurrent program to gather table statistics. For more information about gathering table statistics, refer to Section 2.3, Gathering Table Statistics.

18. In Oracle LSH, execute the ETL Programs. Follow steps listed in *Oracle Clinical Development Analytics User and Administrator Guide Release 2.0.0.1* (Executing the ETL Programs).
19. If you use OC4J as your application server, perform the following steps:
    a. Copy the help.zip from the temporary staging location to the following locations:

       <*OBIEE_directory*>/oc4j_bi/j2ee/home/applications/analytics/analytics/res/s_oracle10/help

       <*OBIEE_directory*>/web/app/res/s_oracle10/help

       where:

       <*OBIEE_directory*> is the location where OBIEE is installed.

    Deploy OCDA's help and images files on Oracle WebLogic Managed Server. Perform post installation steps listed in Section 3.11, Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server (Chapter 3, Post Installation Tasks.

You have now installed the OCDA patch. To confirm that the patch has been successfully applied, start Dashboards and confirm that the data is displayed.

See Also:

- *Oracle Life Sciences Data Hub System Administrator's Guide*
- *Oracle Life Sciences Data Hub Installation Guide*

4.2 Upgrading OCDA 2.0.0.1 to OCDA 2.0.0.2

You must install the OCDA Release 2.0.0.2 as a patch to OCDA Release 2.0.0.1

4.2.1 Installing the 2.0.0.2 Patch

To install the patch:

1. Log in to Oracle LSH as a user who can execute ETL Programs.

   For more information, refer to *Oracle Clinical Development Analytics User and Administrator Guide Release 2.0.0.2* (Security).

2. On the Oracle LSH database server, create a directory and set the permissions on the directory to 777.

This directory will be used to copy the patch related files and will also contain the patch installation log files.

3. Log in to Oracle LSH database using the apps account and create a database directory on the Oracle LSH database.

   For example,

   ```
   create or replace directory CDA_PATCH_IMP as <db directory>;
   ```

   where

   <*db directory*> is the directory created in step 3.

4. Log out of the Oracle LSH database.

5. Copy the extracted OCDA_domain_2.0.0.2.zip from the temporary staging location to the directory created in step 5.

6. Copy the cdrruwainstall.sql and cdrruimport.sql from $CDR_TOP/patch/115/sql/ to the parent directory of the directory created in step 5. For example, if the database directory created in step 5 is /home/cdapatch_2001, copy the files to /home

   Note: If Oracle LSH Application server is on a separate physical machine, copy the cdrruwainstall.sql and cdrruimport.sql files from the Oracle LSH Application server to the Oracle LSH Database server.

7. Navigate to the directory where OCDA_domain_2.0.0.2.zip is placed, and run the following command:

   ```
   sqlplus apps/<apps_password>@<DB_INSTANCE>
   @../cdrruimport.sql <LSH_APPL_USER> <DB_DIRECTORY> OCDA_
   domain_2.0.0.2.zip MANUAL_COMMIT
   ```

   where

   <*DB_INSTANCE*> is the service name for the database where Oracle LSH is installed.

   <*LSH_APPL_USER*> is the LSH user account as created in the Creating an Oracle Life Sciences Data Hub User Account section on page 1-8.

   <*DB_DIRECTORY*> is the logical DB directory name mapped to the Operating System (OS) directory containing the OCDA_domain_2.0.0.2.zip to be imported.

   Note: Use the OCDA_domain_2.0.0.2_import.log file to verify if the script has executed successfully.

8. Perform the following steps for OCDA_SDE_SC_WORK_AREA:

   a. Navigate **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_SDE_SC_WORK_AREA**.

   b. Select OCDA_S_PARTY_LS and S_PARTY objects and remove them.

   c. Click the *OCDA_PLS_SC_PARTY_HIERARCHY_PRG* hyperlink.

   d. Click **Submit**.

   e. Enter the following information in Submission Details:

- Submission Type: **Backchain**
- Force Execution: **Yes**

f. Click **Submit**.

g. Navigate to the LSH Home Page.

h. Click the Job ID of the program you submitted in backchain in step c.

This opens the Job Execution Details page of the job.

i. Click **Cancel Job**.

9. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_OC_DATA_WA** and ensure that the following connections are set in Oracle LSH:

Table 4–5 Connections in Oracle LSH

Remote Connection	Load Set
OCDA_OC_OLTP_RL/OPA	OCDA_OC_OPA_LS
OCDA_OC_OLTP_RL/RXA_DES	OCDA_OC_RXA_DES_LS
OCDA_OC_OLTP_RL/RXC	OCDA_OC_RXC_LS

For more information about setting up remote locations in Oracle LSH, refer to *Oracle Clinical Installation Guide Release 2.0.0.2* (Post Installation Tasks)

10. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_SC_DATA_WA** and ensure that the following connections are set in Oracle LSH:

Table 4–6 Connections in Oracle LSH

Remote Connection	Load Set
OCDA_SC_OLTP_RL/SIEBEL	OCDA_SC_LS

Note: If you have used either the view creation script or the synonym creation script, you must use the same user who is the owner of the schema for setting OCDA_SC_OLTP_RL.

Note: If Siebel clinical is one of your sources, follow the section Handling Deletion in Oracle's Siebel Clinical on page 3-10

11. Navigate to **OCDA_domain** > **OCDA_SOURCES_APP_AREA** > **OCDA_CUSTOM_TABLE_WA** and ensure that the OCDA_CUSTOM_OLTP_RL/RXI remote connection is set for OCDA_RXI_LS load set.

12. Navigate to the work area specified and select all the objects that are checked out and click **Install**:

Tip: You can identify the checked out object in the Work Area screen. Their latest version will be greater than the installed version.

Table 4–7 List of Objects

Name	Object Type	Path
OCDA_UTIL_APP_AREA	Application Area	OCDA_domain
OCDA_INFA_Party_Parent_SDE_SC_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_SDE_SC_WORK_AREA
OCDA_INFA_Subject_Prtcptn_Fact_SDE_SC_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_SDE_SC_WORK_AREA
OCDA_PLS_SC_PARTY_HIERARCHY_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_SDE_SC_WORK_AREA
OCDA_INFA_Subject_Status_Fact_SDE_SC_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_SDE_SC_WORK_AREA
OCDA_INFA_CRF_Dim_SDE_Pool_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_POOL_WORK_AREA
OCDA_INFA_Application_User_D_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA
OCDA_INFA_Study_Site_Access_Sec_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA
OCDA_INFA_Discrepancy_Agg_Fact_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA
OCDA_INFA_Discrepancy_Status_Agg_Fact_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA
OCDA_INFA_Subject_Prtcptn_Aggr_Fact_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA
OCDA_INFA_Study_Access_Sec_SIL_PRG	Work Area	OCDA_domain > OCDA_CODE_APP_AREA > OCDA_WORK_AREA

13. Create an execution setup for OCDA_INFA_Party_Parent_SDE_SC_PRG by doing the following:
    1. Navigate **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_SDE_SC_WORK_AREA**.
    2. Click the *OCDA_INFA_Party_Parent_SDE_SC_PRG* hyperlink.
    3. From the **Actions** list, select **Execution Setups** and click **Go**.
    4. Click **Create Execution Setup**.
    5. In the **Name** field, enter a meaningful name for the execution setup and click **Apply**.
    6. Select the newly created execution setup in Execution Setup listing screen and click **Set as Default**.
    7. Click the Execution Setup's name in the Execution Setup column.
    8. Click the **System Parameters** subtab in the Execution Setup screen.
    9. Click the **Update** button in the System Parameters subtab.
    10. In the **Submission Type** section, select **Backchain** and **Triggered**.
    11. Click **Apply**.
14. Perform the following steps for OCDA_INFA_Party_Parent_SDE_SC_PRG:
    a. Navigate **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_SDE_SC_WORK_AREA**.
    b. Click the *OCDA_INFA_Party_Parent_SDE_SC_PRG* hyperlink.

c. Click **Submit**.

d. Enter the following information in Submission Details:

- Submission Type: **Backchain**
- Force Execution: **Yes**

e. Click **Submit**.

f. Similarly, repeat steps d and e for each of the following programs:

OCDA_domain > OCDA_CODE_APP_AREA > OCDA_POOL_WORK_AREA > OCDA_INFA_Subject_Prtcptn_Fact_SDE_SC_PRG

OCDA_domain > OCDA_CODE_APP_AREA > OCDA_POOL_WORK_AREA > OCDA_INFA_CRF_Dim_SDE_Pool_PRG

15. Verify if all Source Independent Load (SIL) programs in **OCDA_domain** > **OCDA_CODE_APP_AREA** > **OCDA_WORK_AREA** have a default Execution Setup with runtime parameters.
16. In Oracle LSH, execute the ETL Programs. Follow steps listed in *Oracle Clinical Development Analytics User and Administrator Guide Release 2.0.0.2* (Executing the ETL Programs).
17. Navigate to **OCDA_domain** > **OCDA_OBIEE_CODE_APP_AREA**, and install OCDA_OBIEE_WA.
18. Install the OCDA_OBIEE_WA work area in Full mode.
19. If you use OC4J as your application server, perform the following steps:

a. Copy the help.zip from the temporary staging location to the following locations:

<*OBIEE_directory*>/oc4j_bi/j2ee/home/applications/analytics/analytics/res/s_oracle10/help

<*OBIEE_directory*>/web/app/res/s_oracle10/help

where:

<*OBIEE_directory*> is the location where OBIEE is installed.

Manually deploy OCDA's help and images files on Oracle WebLogic Managed Server. Perform post installation steps listed in Section 3.11, Deploying Oracle Clinical Development Analytics on Oracle WebLogic Managed Server (Chapter 3, Post Installation Tasks).

You have now installed the OCDA patch. To confirm that the patch has been successfully applied, start Dashboards and confirm that the data is displayed.

See Also:

- *Oracle Life Sciences Data Hub System Administrator's Guide*
- *Oracle Life Sciences Data Hub Installation Guide*

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