Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical

Installation Guide

Release 11.1

E36139-01

August 2013

ORACLE®

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E36139-01

Contents

Preface

Welcome to the Oracle Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical (Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical Process Integration Pack) 11.1.

Audience

This document is intended for all Study, Subject, and Visit Synch: Siebel Clinical (SC) - Oracle Clinical (OC) Process Integration Pack (PIP) users.

Oracle Application Integration Architecture Guides

The following Oracle Application Integration Architecture (AIA) guides and resources provide more information on AIA Foundation Pack 11.1.1.5 on which this integration is built:

- *Oracle Fusion Middleware Concepts and Technologies Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Getting Started and Demo Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Infrastructure Components and Utilities User's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Reference Process Models User's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Product to Guide Index for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*
- *Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5)*

Additional Resources

The following resources are also available on Oracle Technology Network (http://www.oracle.com/technology/):

- *Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Implementation Guide Release 11.1*
- *Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Release Notes Release 11.1*
- *Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Security Guide Release 11.1*
- *Known Issues and Workarounds*
- *Documentation Updates*

Documentation Accessibility

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

Access to Oracle Support

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

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.

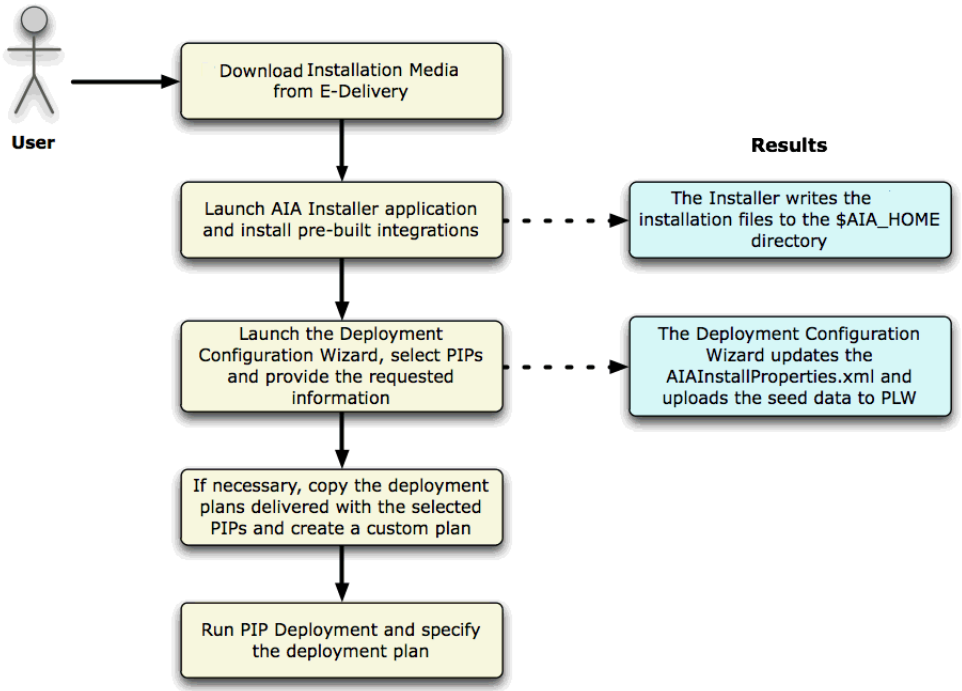
1

Pre-built Integration Installation

The Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical installation consists of three stages:

- Installation
- Configuration
- Deployment

Figure 1–1 Illustrates the Flow of the Pre-built Integration Installation



The installer is built on Oracle Universal Installer (OUI) and enables you to install the integration. The installer is platform independent.

For information about system requirements and supported platforms for Oracle Application Integration Architecture (AIA) Foundation Pack 11gR1, search for System Requirements and Supported Platforms for Oracle Application Integration Architecture Foundation Pack 11gR1 on http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html and download the xls file.

The Deployment Configuration Wizard (DCW) defines the configurations needed for each pre-built integrations and guides you through the configuration. When you launch the DCW, you select the individual pre-built integrations to configure and enter the information required for the configuration.

For details about the DCW, see Chapter 2.

When your pre-built integration is configured, you run the pre-built integrations deployment and specify the deployment plan.

For more details about deployment, see Chapter 3.

2

Pre-built Integration Configuration

The integration DCW helps you configure the integration. This section discusses various configuration options and screens that appear.

When you configure the integration, DCW prompts for the integration specific information.

- When configuring the integration over an existing configuration, which has one or more integrations, and the new integration selected for configuration shares one or more participating applications with existing pre-built integrations, the common application information that is captured is shown to you. You can choose to change the captured information or keep it the same.

  For example, when the first run of the DCW configures integration1 and the second run tries to configure integration2, and integration2 shares a participating application with integration1 such as Siebel Clinical, then DCW shows the captured details and asks you to overwrite or not. If you choose not to overwrite, the details previously provided are retained.

2.1 Routing Rules Configuration in Enterprise Business Services

Every pre-built integration has its own set of routing rules. These routing rules get delivered when you install the integration. However, the routing rules implementation can differ depending upon the various installation scenarios.

When you deploy a single pre-built integration, the Enterprise Business Services (EBS) for that integration is deployed with all default routing rules.

For more information about using and extending routing rules, see *Oracle Enterprise Service Bus Developer's Guide*.

The routing rules for this integration are available in `AIA_HOME/pips/StudySubjectVisitSyncSCandOC/EBS`. The install log provides information about the EBS for which you need configure routing rules.

For more information about how to use these delivered routing rules to design and implement your own integration routing rules and the associated integration configuration properties, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*.

2.2 Installation, Configuration, and Deployment Topologies

There are several installation and deployment topologies possible using the installer. Choose the installation that best suits your need. For more details, see the AIA

Installation and Deployment -Strategies, Topologies, and Flexibilities White Paper on http://www.oracle.com/index.html.

Only one instance of each participating application can participate in any given direct or process integration when installed through the installer. After installing using the installer, you can configure pre-built integrations to connect to multiple instances. For details on configuring more than one instance of a participating application, see this integration's Implementation Guide.

3

Pre-built Integration Deployment

This section discusses the deployment of the pre-built integration included in this release.

The deployment of a pre-built integration is done through the deployment plan. The deployment plan and the configured AIAInstallProperties.xml are passed as parameters to the AIA Install Driver (AID) for deployment.

You must configure the AIAInstallProperties.xml with the corresponding pre-built integrations Server details using the Configuration Wizard. AID does not perform any checks to validate the AIAInstallProperties.xml has been configured with the corresponding pre-built integrations Server details.

The pre-built integration ships a main deployment plan, a supplementary deployment plan (optional), and a conditional policy file (optional). These files are passed as parameters to the AID with the configured AIAInstallProperties.xml. AID retrieves the required property values from the install properties file and deploys the pre-built integrations.

3.1 Pre-built Integration Codeployment

Codeployment is also available among PIPs or Direct Integrations (DIs) when neither is part of a pre-built integration group. Before you install multiple PIPs or DIs on a single SOA instance, refer to My Oracle Support note 1567671.1 to review the integration PIP Codeployment Matrix and check whether your PIP or DI combination is supported on a single instance.

To install multiple PIPs that do not support codeployment, you must install each PIP or DI on a separate SOA instance. Installing unsupported PIP or DI combinations on a single SOA instance may require custom changes to accommodate any resulting functional impact or common PIP or DI components, such as common routing rules.

3.2 Pre-built Integration Undeployment

The undeployment of the PIP is done through the undeployment plan. The undeployment plan and the configured AIAInstallProperties.xml are passed as parameters to AID for undeployment.

The generated deployment plan generates an undeployment plan with the install deployment plan.

4

Software Requirements

The Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical requires:

- Oracle Clinical RDC 4.6.5 with Patch 16629795 (OC_4.6.5.3)
- Siebel Clinical 8.1.1.5 with Patch 16318467 (QF05DR) and ACR 539 applied

5

Prerequisites

Before you start the installation process, ensure the following:

- Install AIA Foundation Pack 11.1.1.5 with RUP 13247584 before you install the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical. Search for *Oracle® Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack* on the Oracle Technology Network (OTN) at http://www.oracle.com/technetwork/middleware/foundation-pack/documentation/index.html, download the latest version and install it. This guide is constantly updated and bug fixed.
- Install Siebel Clinical 8.1.1.5 with Patch 16318467 (QF05DR) and ACR 539 applied.
- Make a backup of any customizations. If you do not create a backup, your customizations are overwritten.

  For more information about backing up your customizations, see Section Section 5.1.

5.1 How to Create Backups of your Customizations

This section discusses the key tasks that you must perform before you perform the installation of the media pack or when you apply patches to your existing PIPs:

- **Back up custom extensible style sheet language transformations (XSLTs)**: These are the extensions performed on the AIA Transformation style sheet. Oracle AIA does not contain any XSLTs for its components and utilities. Because the process content is delivered only in PIPs, you must manually back up the XSLTs if you have developed any for the custom integrations, and reapply them as a post install step.
- **Back up custom routing rules in the (EBS)**: If you have defined any routing rules, on any of the EBS available as part of the PIP, on top of the rules provided out of the box, you must manually take a back up of the EBS. You must merge the EBS manually as a post installation step.
- **Back up the AIAConfigurationProperties.xml file**: This file is located in the $AIA_INSTANCE/AIAMetaData/config folder. Merge custom inclusions in the CONFIG file and change properties as required after installation.

Note: Ensure that you check My Oracle Support for the most current list of patches.

6

Configuration Wizard

The configuration wizard screens prompt you to enter the data required for successful configuration of the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical. Enter the details of the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical screens described in the following sections, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

6.1 PIP Server Details Screen

All artifacts associated with the integration infrastructure components will be deployed to the PIP server. Table 6–1 describes the fields displayed on this screen:

Table 6–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	This is where the admin server resides. This can be a remote server or the same machine where the installer is launched. For example, `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which the WebLogic Admin server is started. To find this value contact the WebLogic administrator. For example, `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. For example, `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port, and Admin User, this field populates the managed servers for the domain. Select the managed server from the list. If you are deploying the PIP to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field is automatically updated after you select the managed server. If you have configured a SOA Cluster, the SOA Cluster port appears in the list.

6.2 Siebel Life Sciences Server Details

Use this screen to enter details related to your Siebel Life Sciences Server instance. Table 6–2 describes the fields displayed on this screen:

Table 6–2 Siebel Life Sciences Server Details Screen Fields

Field	Description
Siebel Clinical Hostname	This value is the fully-qualified computer name of the Siebel Clinical host. For example, `example1.corp.siebel.com` Siebel Clinical Hostname is _____
Siebel Clinical Http Port	This value is the Siebel application port. To find this value, contact your administrator. For example, `80` Siebel Clinical Http port is _____
Internet Protocol	For example, https://
Siebel Enterprise Server Name	To find this value, contact the database administrator. Siebel Enterprise Server Name is _____
Siebel Clinical EAI Application User	This value is the Siebel integration user used to make EAI Web service calls. To find this value, contact your administrator. Siebel Clinical EAI Application User is _____
Siebel Clinical EAI Application Password	To find this value, contact the database administrator. Siebel Clinical EAI Application Password is _____
Siebel Clinical Version	This is the version of the Siebel Clinical application. Siebel Clinical Version is _____
Siebel Language	For example, enu

6.3 Oracle Clinical Server Details

Use this screen to enter details related to your Oracle Clinical server that is running the Oracle Clinical web services. Table 6–3 describes the fields displayed on this screen:

Table 6–3 Oracle Clinical Server Details Screen Fields

Field	Description
Oracle Clinical Web Services Hostname	This value is the fully-qualified machine name of the server where the Oracle Clinical Web services are deployed. This can be the same machine as where the SOA suite is installed or could be any machine running Oracle SOA Suite 11g. For example, `opa-apps76.us.oracle.com` Oracle Clinical Web Services Hostname is _____
Oracle Clinical Web Services Port	This value is the application port where the Oracle Clinical Web services are deployed. To find this value, contact your administrator. For example, `8024` Oracle Clinical Web Services Port is _____
Oracle Clinical RDC Version	This value is the version of the Application. To find this value, contact your administrator. For example, `4.6.5` Oracle Clinical RDC Version is _____

6.4 Oracle Clinical Remote Data Capture Database Details

Use this screen to enter details related to your Oracle Clinical Remote Data Capture database details. Table 6–4 describes the fields displayed on this screen:

Table 6–4 Oracle Clinical Remote Data Capture Database Details Screen Fields

Field	Description
Oracle Clinical Database Hostname	This value is the fully-qualified machine name of the server where the Oracle Clinical Remote Data Capture database is installed. For example, `olshp2.us.oracle.com` Oracle Clinical Database Hostname is _____
Oracle Clinical Database Port	This value is the port number for the Oracle Clinical database. To find this value, contact your administrator. For example, `1570` Oracle Clinical Database Port is _____
Oracle Clinical Database ID	This value is the SID of the Oracle Clinical database. To find this value, contact your administrator. For example, `prod`. Oracle Clinical Database ID is _____ **Note:** This must match the value returned from **select * from global_name** in the database instance.
Oracle Clinical Database Username	This field is read-only and contains `rxc`as the username.
Oracle Clinical Database Password	Enter the password for the rxc user.

6.5 Session Pool Manager Screen

This integration uses the Session Pool Manager utility to interact with the Siebel web services. If the AIA server must invoke the Siebel web services through a proxy server, fill in the values in this screen. If no proxy server is involved, these values can be left blank.

Use this screen to enter details related to your Session Pool Manager. Table 6–5 describes the fields displayed on this screen:

Table 6–5 Session Pool Manager Screen Fields

Field	Description
Proxy Host URL	Specify the proxy host location. For example, `www-proxy.your.company.com` Proxy Host URL is _____
Proxy Port	Specify the proxy port. For example, `80` Proxy Port is _____

For information about Session Pool Manager, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*.

7

Installing the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

This chapter describes the steps for installing the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical, which includes:

1. Section 7.1, "Installing the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical"
2. Section 7.2, "Configuring the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical"
3. Section 7.3, "Configuring the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical Using Response File"
4. Section 7.4, "Deploying the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical"

> **Note:** Install AIA Foundation Pack before you install the PIP. Search for *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5.0)* in My Oracle Support and download the latest version. This guide is constantly updated and bug fixed.

7.1 Installing the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

When you use the installer, the following takes place:

- You see a welcome screen that lists prerequisites and information about how to begin the installation process.
- The following prerequisite system checks are performed:
  - Operating system certification
  - Recommended operating system packages
  - Kernal parameters
  - Recommended gilbc version
  - Physical memory
- You are prompted to enter the installation location.
- You see an installation summary, which includes directory details, disk space required and available, and a list of the applications that are installed.

- You can choose to save the Response file, which stores the values that you have input and are displayed on the installation summary page.

To install the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical:

1. Download Oracle Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical V11.1 from edelivery.
2. Unzip **aia-sc_oc-pip.zip** to any location on the server.
3. Navigate to **sc_oc-pip > Disk1**.
4. Follow the launch instructions for your platform. Table 7–1 lists the commands that you must use based on your platform. Installer launches the Welcome screen.

Table 7–1 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	At the command line prompt, enter: `./runInstaller -invPtrLoc <SOA_HOME>/oraInst.loc -jreloc <location of the jre specific to your operating system. This directory should have /bin/java>`
Microsoft Windows 2008 (32-bit or 64-bit)	Double-click **setup.exe**.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Next**.
8. Review the installation summary. To save the response file, click **Save**.

   The response file stores the values that you previously entered and are on the summary page. If you want to do the reinstall, you can run a command and the installer performs a silent install with inputs from response file instead of using the wizard.

   This is an example of the command. Observe the `-silent` and `-response` arguments.

   ```
   ./runInstaller -invPtrLoc <SOA_Home>/oraInst.loc -jreLoc <location of the jre specific to your operating system> -silent -response <full path to response file>
   ```

9. Click **Install**. A warning message is displayed.

   The warning message: *This installation will overwrite your AIAHOME with new content. Should your AIAHOME have customizations that you wish to preserve, please make a backup before you proceed. Are you sure you are ready to continue with the current installation? is displayed.*

   Click **Yes** to proceed with the installation.

   Or

   Click **No** to go back to the previous screen. For backing up the AIAHOME and preserving customizations, see Section 5.1.

10. Click **Next**.
11. Click **Finish**.

12. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/config. Also review the install log files located in the <AIA_HOME>/cfgtoollogs/oui directory.

7.2 Configuring the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

The screens that are displayed prompt you to enter the data that is required for successful configuration of the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical. Keep the completed worksheets of the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical screens ready before you launch the configuration wizard. For more information, see Chapter 6.

To configure the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical:

1. Navigate to `<AIA_Instance>/bin` and run the following command as per your platform to configure the installation environment:
   - On Linux: `aiaenv.bat`
   - On Windows: `source aiaenv.sh`
2. Navigate to `<AIA_HOME>/bin` and run the following command as per your platform
   - On Linux: `./aiaconfig.sh`
   - On Windows: `aiaconfig.bat`

   This launches the AIA Configuration Wizard.
3. Click **Next**.
4. Select **Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical**.
5. Click **Next**.

   The PIP Server Details screen is displayed.

Specifying the PIP Server Details

To specify the PIP Server details:

1. In the PIP Server Details screen, enter information related to your PIP server.
2. Click **Next**.

   The Siebel Life Sciences Server Details screen is displayed.

Specifying the Siebel Life Sciences Server Details

To specify the Siebel Life Sciences Server details:

1. In the Siebel Life Sciences Server Details screen, enter information about your Siebel Life Sciences Server instance.
2. Click **Next**.

Specifying Oracle Clinical Server Details

To specify Oracle Clinical Server details:

1. In the Oracle Clinical Server Details screen, enter information about your Oracle Clinical environment.

Note: Oracle Clinical web services hostname and Oracle Clinical Http port fields, in the Oracle Clinical Server Details screen; refer to the SOA FMW hostname and the SOA port respectively.

2. Click **Next**.

Specifying Oracle Clinical Remote Data Capture Database Details

To specify Oracle Clinical Remote Data Capture Database details:

1. In the Oracle Clinical Remote Data Capture Database Details screen, enter information about your Oracle Clinical environment.
2. Click **Next**.

Specifying Session Pool Manager Details

To specify Session Pool Manager details:

1. In the Session Pool Manager Details screen, enter information related to your Session Pool Manager installation.
2. Click **Next**.

Completing Configuration

To complete configuration:

1. In the Configuration Summary screen, review the configuration information.

Note: If you want to make changes to the configuration before starting the installation, use the navigation pane on the left and select the topic you want to edit. You can also create a response file based on the input provided and use it for future installations and deployments.

2. Click **Configure** to accept this configuration and begin the installation.

   The system displays progress of the configuration in the Configuration Progress screen.

   The system displays any warnings or errors as necessary. You can review the configuration log for additional details. The configuration log location is displayed in the Configuration Progress screen.
3. When the configuration process completes without errors, the AIA Configuration Wizard displays the Configuration Progress screen.
4. Click **Next**.
5. Click **Finish** to close the configuration wizard.

7.3 Configuring the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical Using Response File

To configure the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical using response file, perform the following:

1. Open the Response file.

When you create a response file through Oracle Universal Installer (OUI), passwords get stored as <SECURE>.

2. Replace the password fields with actual passwords in the response file.
3. Navigate to `<AIA_Instance>/bin` and run the following command to configure the environment:
   - On Linux: `source aiaenv.sh`
   - On Windows: `aiaenv.bat`
4. Navigate to `<AIA_HOME>/bin` and run the following command:
   - On Linux: `./aiaconfig.sh <Response File Location and Name>`
   - On Windows: `aiaconfig.bat <Response File Location and Name>`
5. Remove the passwords from the response files.

7.4 Deploying the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

To deploy the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical to Fusion Middleware server:

1. Navigate to `<AIA_Instance>/bin` and run the following command as per your platform to configure the installation environment:
   - On Linux: `source aiaenv.sh`
   - On Windows: `aiaenv.bat`
2. Run the command for your platform.

> **Note:** When you copy and paste the command in the command line, ensure that there is space between `.xml` and `-`. Ensure that there is space between these two when you run undeployment command too.

Table 7–2 Deployment commands for Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

Platform	Deployment Command
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOCDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOCSupplementaryDP.xml -l <AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOC.log`
Microsoft Windows 2008 (32-bit or 64-bit)	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOCDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOCSupplementaryDP.xml -l <AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOCDP.log`

To verify successful deployment, review the log file in the location specified in the command.

AIA ships a few artifacts in AIA Lifecycle Workbench which can be used in your integrations. You can modify these native artifacts or add new natively supported artifacts using AIA Lifecycle Workbench and generate a BOM.xml file.

AIA Foundation Pack also supports the deployment of custom artifacts. These artifact types are beyond what is natively supported by Project Lifecycle Workbench and AIA Harvester. For example, you can now deploy third party technology artifacts which constitute part of integration landscape in addition to those provided by AIA.

For more information about generating deployment plans and deploying artifacts, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5.0)*.

7.5 Securing SOA Server and Siebel Web Services

For information on securing SOA server and Siebel web services, see *Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Security Guide.*

8

Performing Post-Installation Configurations

This section discusses post-installation configurations for the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical. The section includes:

- Section 8.1, "Creating a User in Oracle WebLogic Server"
- Section 8.2, "Configuring Session Pool Manager"
- Section 8.3, "Configuring the Oracle Clinical RAC Data Source"

8.1 Creating a User in Oracle WebLogic Server

As part of this integration, Siebel Clinical writes messages to a JMS queue on the SOA server. Ensure that the user you choose for connecting Siebel to the SOA server exists in the Oracle WebLogic server. For example, sadmin user is the default admin user of Siebel.

To create a user:

1. Navigate to the WebLogic console.
2. Under Domain Structure of soa_domain, select **Security Realms**, and then **myrealm**.
3. Select the **Users and Groups** tab, and then the **Users** tab.
4. Click **New**.
5. In the **Name** field, enter `sadmin` as the provider name.
6. In the **Password** field, enter password provided during configuration of the corresponding Siebel Workflow.
7. In the **Provider** list, select the default authentication provider for the user.
8. Click **OK**.

8.2 Configuring Session Pool Manager

This integration uses the Session Pool Manger utility. Configure Session Pool Manager after you install the PIP. For information on how to configure Session Pool Manager for your integration environment and needs, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*.

8.3 Configuring the Oracle Clinical RAC Data Source

To configure the OC data source if the OC database is RAC, perform the following:

For the UpdateClinicalStudyOCDS Data Source:

1. Navigate to the WebLogic console.
2. Under Domain Structure of soa_domain, select **Services**, and then **Data Sources**.
3. On the Configuration page, select **UpdateClinicalStudyOCDS**.
4. Click **Delete**.
5. Click **New** and select the **Multi Data Sources** option.
6. In the Create a New JDBC Multi Data Source screen, name the datasource as `UpdateClinicalStudyOCDS`.
7. In the JNDI Name column, enter `jdbc/UpdateClinicalStudyOC`.

   Note: Do not change any other default values.

8. Click **Next**.
9. Select the SOA server and click **Next**.
10. Retain the default, **Non-XA Driver**, and click **Next**.
11. Click **Create New Data Source**.
12. In the Create Screen, name the Data source as `UpdateClinicalStudyOCDS-rac0`.

    where, `rac0` is the first RAC node and the number should be incremented for each node.

13. In the JNDI Name column, enter `jdbc/UpdateClinicalStudyOC-rac0`.

    where, `rac0` is the first RAC node and the number should be incremented for each node.

    Note: Do not change any other default values.

14. Click **Next**.
15. Enter `Oracle` as the database type. For the driver type, enter `Oracle Driver (Thin)` for RAC server-Instance connection Version 10, 11.
16. Deselect **Supports Global Transactions** and click **Next**.
17. Click **Next** and enter the database name, host name, and port of your Oracle Clinical database Instance. You must enter the user name as `rxc` and password for this user.
18. Click **Next**.
19. Test the configuration and click **Next**.
20. Select your SOA server as the target. For example, `soa_server1`.
21. Click **Finish**.

    The Data Source is created and deployed on the target server.

22. Repeat steps 11 to 21 for each node of the RAC instance.

For the OracleClinicalCoreDS Data Source:

1. Delete the existing OracleClinicalCoreDS using the steps 2 to 4 of the **For the UpdateClinicalStudyOCDS Data Source** section.
2. Click **New** and select the **Multi Data Sources** option.
3. In the Create a New JDBC Multi Data Source screen, name the datasource as `OracleClinicalCoreDS`.
4. In the JNDI Name column, enter `jdbc/OracleClinicalCoreDS`.

   Note: Do not change any other default values.

5. Click **Next**.
6. Select the SOA server and click **Next**.
7. Retain the default, **Non-XA Driver**, and click **Next**.
8. Click **Create New Data Source**.
9. In the Create Screen, name the datasource as `OracleClinicalCoreDS-rac0`.

   where, `rac0` is the first RAC node and the number should be incremented for each node.

10. In the JNDI Name column, enter `jdbc/OracleClinicalCoreDS-rac0`.

    where, `rac0` is the first RAC node and the number should be incremented for each node.

    Note: Do not change any other default values.

11. Click **Next**.
12. Enter `Oracle` as the database type. For the driver type, enter `Oracle Driver (Thin)` for RAC server-Instance connection Version 10, 11.
13. Deselect **Supports Global Transactions** and click **Next**.
14. Click **Next** and enter the database name, host name, and port of your Oracle Clinical database Instance. You must enter the user name as `rxc` and password for this user.
15. Click **Next**.
16. Test the configuration and click **Next**.
17. Select your SOA server as the target. For example, `soa_server1`.
18. Click **Finish**.

    The Data Source is created and deployed on the target server.

19. Repeat steps 8 to 18 for each node of the RAC instance.

9

Verifying Installation

To verify the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux and Solaris SPARC Based Systems: Review the install log located at <AIA_HOME>/aia_instances/<instance name>/logs to verify that the PIP is successfully installed.
   - For Microsoft Windows: Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs to verify that the PIP is successfully installed.
2. Confirm that the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical components were successfully installed.
   a. Navigate to the EM Console: http://<server name>:<port number>/em/
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Navigate to soa-infra/services/default and look for items listed below:
   - AIASessionPoolManager
   - HealthSciencesClinicalStudyEBS
   - UpdateClinicalStudyOCAQConsumer
   - UpdateClinicalStudyOCHealthSciencesProvABCSImpl
   - UpdateClinicalStudyOCHealthSciencesReqABCSImpl
   - UpdateClinicalStudySEBLHealthSciencesProvABCSImpl
   - UpdateClinicalStudySEBLHealthSciencesReqABCSImpl
   - UpdateClinicalStudySEBLJMSConsumer

9.1 Validating the Security Policies

This integration pack fully leverages the security infrastructure provided by the Oracle 11g SOA Suite, AIA Foundation Pack, and the underlying transport layer security features for Web Service security. This is implemented through Foundation Pack by assigning global service and client security policies that use user name or SAML tokens for authentication. These global policies are automatically assigned during deployment of the AIA services.

The global server policy name is `oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON` and the global client policy name is `oracle/aia_wss10_saml_token_client_policy_OPT_ON`.

This integration has some locally attached policies which can be verified.

To validate locally attached security policies:

1. Log in to EM Console.
2. Navigate to **WebLogic Domain** > **soa_domain** > **Web Services** > **Policies**.
3. Verify the Service Policy attachment.
   a. Find the service policy in the list of policies.
   b. Click the number in the Attachment Count column.

      This opens the Usage Analysis screen.
   c. Change the Subject Type list box to **SOA Service**.
   d. Validate that all the composites are listed with local attachment to this service policy.
4. Verify the Client Policy attachment.
   a. Navigate back to the Policies screen and find Client Policy.
   b. Click the number in the Attachment Count column.

      This opens the Usage Analysis screen.
   c. Change the Subject Type list box to **SOA Reference**.
   d. Validate that all the composites are listed with local attachment to this client policy and attached to the correct references.

Table 9–1 provides information about the attachment policies:

Table 9–1 Service Policy Attachments for Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

Composite	Service Policy
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 9–2 No Authentication Client Policy Attachments for Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

Composite	Reference	Client Policy
UpdateClinicalStudyOCHealthSciencesProvABCSImpl	InvestigatorServiceSoapHttpPort	oracle/no_authentication_client_policy
UpdateClinicalStudyOCHealthSciencesProvABCSImpl	SiteServiceSoapHttpPort	oracle/no_authentication_client_policy
UpdateClinicalStudyOCHealthSciencesProvABCSImpl	StudySiteServiceSoapHttpPort	oracle/no_authentication_client_policy
UpdateClinicalStudySEBLHealthSciencesProvABCSImpl	Upsert	oracle/no_authentication_client_policy

For more information about security validation, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.5.0)*, (Working with Security).

For PIP implementation, see *Oracle Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Implementation Guide*.

10

Undeploying the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

This chapter includes:

10.1 Undeploying the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

To undeploy the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical from Fusion Middleware Server:

1. Navigate to `<AIA_Instance>/bin` and run the following command as per your platform to configure the installation environment:
   - On Linux: `source aiaenv.sh`
   - On Windows: `aiaenv.bat`
2. Run the undeployment command for your platform.

Table 10–1 Undeployment Command for the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

Platform	Undeployment Command
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	`ant Uninstall -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<AIA_Instance_name>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOCUndeployDP.xml -l <AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOC.log`
Microsoft Windows 2008 (32-bit or 64-bit)	`ant Uninstall -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<AIA_Instance_name>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOCUndeployDP.xml -l <AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOC.log`

3. Session Pool Manager does not get undeployed when you undeploy the PIP as it belongs to common components. To undeploy Session Pool Manager, run the command specific to your platform.

Table 10–2 Undeployment Command for Session Pool Manager

Platform	UndeploymentCommand
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	`ant Uninstall -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<AIA_Instance_name>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/utilities/SessionPoolManager/V1/DeploymentPlans/SessionPoolManagerUndeployDP.xml`
Microsoft Windows 2008 (32-bit or 64-bit)	`ant Uninstall -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<AIA_Instance_name>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\utilities\SessionPoolManager\V1\DeploymentPlans\SessionPoolManagerUndeployDP.xml`

4. Restart the SOA server.
5. Uninstall the PIP following the instructions in Section 10.2.

10.2 Uninstalling Oracle AIA

This section discusses how to uninstall the PIPs and DIs included in pre-built integrations and Foundation Pack. This section includes:

- Section 10.2.1, "Uninstalling Pre-Built Integrations and Foundation Pack"
- Section 10.2.2, "Uninstalling the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical"
- Section 10.2.3, "Cleaning the Environment"
- Section 10.2.4, "Verifying Uninstall Processes"

> **Note:** Before uninstalling, consider the impact on any customizations you have made.

10.2.1 Uninstalling Pre-Built Integrations and Foundation Pack

The AIA Uninstaller removes the pre-built integrations and Foundation Pack installed on your system. To perform the uninstall of all applications in AIA_HOME using the undeployment plan:

1. Manually back up your customizations.
2. Undeploy all the PIPs and DIs that belong to the pre-built integrations by launching the respective undeployment plan for your PIP or DI.
3. Launch the pre-built integrations OUI wizard. This is located at: AIA_HOME/oui/bin. You must type ./runInstaller -deinstall. On the **Deinstall AIA Home** screen, make sure the AIA_Home shown is correct and select **DEINSTALL**.
4. Exit the Uninstaller.

10.2.2 Uninstalling the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical

A PIP or DI can never be uninstalled individually. Individual PIPs or DIs can only be undeployed by running its respective undeployment plan. For more information on undeploying the PIP, see Section 10.1 of this guide. When you run the uninstall, it removes all individual integrations and Foundation Pack installed in AIA_HOME.

10.2.3 Cleaning the Environment

To clean the environment:

1. Navigate to WebLogic console and click **Deployments** in the left navigation bar.
2. Select all AIA related deployments if they exist (ideally they get removed during uninstallation) and click **Delete**.
3. Repeat the above step for Datasources, JMS modules, and JMS resources if they exist.
4. Navigate to **Security Realms** and select your realm (myrealm).
5. Click the **Users and Groups** tab and remove AIA users and AIA groups.
6. Shutdown the SOA managed server and then shutdown the Admin server.
7. Start the Admin server.
8. Open the console and verify whether you have any changes to activate in the **Activation** center. If there are any, activate them. If they do not get activated, undo all changes.
9. Open the folder **Middleware/domains/<your_domain>** and remove the file **edit.lok**.
10. Open the folder **Middleware/domains/<your_domain>/pending** and remove all files.
11. Restart the SOA Server.

    Attempt a fresh installation. Ensure that you have completed all preinstallation steps before attempting the installation

10.2.4 Verifying Uninstall Processes

If you chose to uninstall the AIA Home directory and its installed processes, navigate to the AIA Home directory, and delete any residual files. You may have added additional files to the home directory that the AIA Pre-Built Integrations Installer did not automatically remove.

Also identify associated Oracle Enterprise Manager Fusion Middleware Control and SOA Composer services and confirm that these services are no longer shown in the Oracle Enterprise Manager Fusion Middleware Control and SOA Composer.

11

Upgrading the Siebel Clinical - Oracle Clinical PIP

This chapter describes the steps for upgrading the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical from version 3.1 to version 11.1.

Perform the following tasks to upgrade the integration from 3.1 to 11.1:

- Section 11.1, "Performing Pre-patch Tasks"
- Section 11.2, "Upgrading the Oracle WebLogic Server From 10.3.4 to 10.3.5"
- Section 11.3, "Upgrading the Service-Oriented Architecture Suite From 11.1.1.4.0 to 11.1.1.5.0"
- Section 11.4, "Upgrading the Database Schema"
- Section 11.5, "Upgrading the Foundation Pack From 11.1.1.4 to 11.1.1.5"
- Section 11.6, "Applying the Foundation Pack Rollup Patch"
- Section 11.7, "Upgrading the Process Integration Pack From 3.1 to 11.1"
- Section 11.8, "Running the Upgrade Deployment Plan"
- Section 11.9, "Performing Post Upgrade Tasks"
- Section 11.10, "Updating the Seed Data"

See Also:

For more information, refer to the following documents:

- **Weblogic and SOA Upgrade**: `http://docs.oracle.com/cd/E21764_01/doc.1111/e16793/patch_set_installer.htm#CHDCCEAC`
- **Foundation Pack Upgrade**: `http://docs.oracle.com/cd/E21764_01/doc.1111/e17949/upgrade.htm#CIACFGIJ`

11.1 Performing Pre-patch Tasks

The section describes the pre-patch tasks for upgrading the PIP and contains the following topics:

- Section 11.1.1, "Stopping the Siebel Workflow"
- Section 11.1.2, "Stopping Messages from Oracle Clinical"
- Section 11.1.3, "Stopping Server Processes"
- Section 11.1.4, "Backing up Middleware Home"

- Section 11.1.5, "Backing up Database Schema"
- Section 11.1.6, "Checking the aq_tm_processes Value for Oracle Portal"

11.1.1 Stopping the Siebel Workflow

You must stop the Siebel Life Sciences (LS) Clinical Rollup Workflow Monitor Agent for Siebel Clinical to ensure that the messages generated by Siebel Clinical are not lost when the PIP is undergoing an upgrade, and the messages are piled up in Siebel Clinical. After the upgrade is complete, restart the LS Clinical Rollup Workflow Monitor Agent to ensure that the messages are delivered to the target application.

Note: Clinical data rollup functionality does not get synchronized until you restart the Workflow Monitor Agent; all pending Siebel Clinical - Oracle Clinical requests and data rollup requests are completed when you restart the Workflow Monitor Agent.

To stop the LS Clinical Rollup Workflow Monitor Agent for Siebel Clinical:

1. Log in to Siebel Clinical application as an administrator, navigate to **Administration**, then navigate to the **Server Management**, and then navigate to **Tasks**.
2. Query for the *Workflow Monitor Agent* component.
3. Select the **Parameters** tab and query for a parameter with the value *LS Clinical Rollup*.
4. Click **Stop** at the top to stop the Workflow Monitor Agent for LS Clinical Rollup.
5. If there are more than one Workflow Monitor Agents, select all the agents for parameter LS Clinical Rollup. Stop only the agents that contain LS Clinical Rollup parameter.

11.1.2 Stopping Messages from Oracle Clinical

You must stop the dequeuing of messages from Oracle Clinical AQ by AIA AQ Consumer to avoid losing any message from Oracle Clinical when the integration is undergoing upgrade process. When the PIP upgrade is complete, enable the dequeue to let messages to be processed by AIA.

Perform the following steps to stop the dequeue messages:

1. Connect to the Oracle Clinical database as user rxc.
2. Execute the following command:

```
execute DBMS_AQADM.STOP_QUEUE(queue_name => 'CLINICAL_STUDY_
QUEUE' ,enqueue => FALSE, dequeue => TRUE, wait => TRUE);

commit;
```

11.1.3 Stopping Server Processes

Stop all server processes on the AIA server. For example, soa_server, admin server, node manager, DB listener, and so on. Execute this command from the command prompt to list process IDs (PIDs) of all the processes:

```
ps -ef | grep java | grep <username>
```

For example, `ps -ef | grep java | grep ora<slot#>`

The output should only display the `grep java` process.

Sometimes even after shutting down all the processes, additional processes might run in the background. In this case, you have to manually kill these processes using the following command:

```
kill -9 <PID>
```

11.1.4 Backing up Middleware Home

Important: Before you start taking backup of the Middleware Home and other components, ensure that you have enough disk space (about 30 GB to 50 GB approximately).

Back up the contents of `<Oracle_home>/Middleware` to the directory `Middleware_bak`.

11.1.5 Backing up Database Schema

Perform the following steps to take a backup of the database schema to MDS.

1. Start the Oracle database and DB listener.
2. Create a directory.

   <user_home>/dbbackup/<directory_name>

   For example,

   `/slot/prod/oracle/dbbackup/mds`
3. Execute these commands from a UNIX command line session:

   ```
   source <oracle_home>/db11g/product/11.2.0/dbhome_1/<DB ENV File Name>.env
   ```

   ```
   sqlplus sys as sysdba
   ```

   You will be prompted for the `sys` password.

   ```
   CREATE OR REPLACE DIRECTORY <dir_name> AS <user_home>/dbbackup/mds;
   ```

   For example,

   ```
    CREATE OR REPLACE DIRECTORY db_dir as '/slot/prod/oracle/dbbackup/mds';
   ```

   ```
   GRANT READ, WRITE ON DIRECTORY db_dir TO system
   ```
4. Exit SQL prompt. Execute the following command at the UNIX prompt:

   ```
   expdp '"/as sysdba"' directory=db_dir schemas=<schema name> dumpfile=<Dump File Name>.dmp logfile=<Log file name>.log rows=y consistent=y feedback=1000
   ```

   For example,

   ```
   expdp system/manager owner=DEV_MDS directory=db_dir dumpfile=Sampledump.dmp logfile=SampleLog.log rows=y consistent=y feedback=1000
   ```

5. Create a directory DB_DIR_SOA_INFRA and repeat steps 3 and 4 to take a back up of the DEV_SOAINFRA schema.

11.1.6 Checking the aq_tm_processes Value for Oracle Portal

Perform the following steps to check the aq_tm_processes value for Oracle Portal:

1. Connect to the AIA Database through SQL*Plus as a sys manager and execute the following commands:

```
create spfile from pfile;
shutdown immediate
startup
show parameter spfile;
show parameter aq_tm_processes;
```

2. If the value returned after executing the commands in step 1 is 0, execute the following command to change the value to 1:

```
Alter system set aq_tm_processes=1 scope=both;
```

11.2 Upgrading the Oracle WebLogic Server From 10.3.4 to 10.3.5

This section describes the steps to upgrade the Oracle WebLogic Server from version 10.3.4 to 10.3.5. This section contains the following topics:

- Section 11.2.1, "Downloading Patch Installer"
- Section 11.2.2, "Updating registry.xml"

11.2.1 Downloading Patch Installer

From the following location download the patch installer for Oracle WebLogic version 10.3.5 to any suitable location on the server:

https://updates.oracle.com/download/12395517.html

Note: In this guide, we have referred to the path of the installer as <WeblogicInstallerPath>.

11.2.2 Updating registry.xml

Perform the following tasks to update registry.xml. You need *not* install Oracle Enterprise Repository (OER) on the server system.

1. Navigate to the Middleware home and backup registry.xml.
2. Add the following section to the registry.xml just before Oracle Enterprise Repository 11.1.1.4 entry and save the file.

Important: Ensure that you change the path names in the following code to those corresponding to the server on which the upgrade is being performed.

```
<product format="1.0" name="Oracle Enterprise Repository">
<release level="11.1" ServicePackLevel="1" PatchLevel="3" Status="installed"
InstallDir="/slot/prod/oracle/Middleware">
<component name="Oracle Enterprise Repository" version="11.1.1.3"
InstallDir="/slot/prod/oracle/Middleware/repository111">
```

```
<component name="Core Repository with Examples"/>
</component>
<component name="Common Infrastructure Engineering" version="6.8.0.0"
InstallDir="">
<component name="Uninstall"/>
<component name="Clone Facility"/>
</component>
</release>
</product>
```

3. If you have an existing WebLogic Server 10.3.0, 10.3.1, 10.3.2, 10.3.3, or 10.3.4 installation that includes Workshop for WebLogic, and you want to use an upgrade installer to upgrade that installation to WebLogic Server 10.3.5, you must uninstall Workshop for WebLogic before running the upgrade installer.

   To check whether Workshop for WebLogic is installed or not and to uninstall Workshop for WebLogic, perform the following steps:

   a. Navigate to the following directory from VNC server:

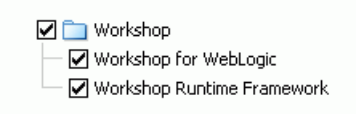
      cd/<Middleware_home>/utils/uninstall

   b. Enter `./uninstall.sh` at the prompt.

   c. Click **Next** on the Welcome screen.

   d. If Workshop for WebLogic is installed, the Workshop for WebLogic component is displayed. If Workshop is installed, select the workshop component and clear selection for all other components and uninstall it. Else, exit installation.

Figure 11–1 Select Workshop Components



4. Run the upgrade installer in graphical mode to patch your WebLogic Server.

   a. Unzip the upgrade installer *p12395517_1035_LINUX.zip* that you downloaded as per the steps in the Section 11.2.1, Downloading Patch Installer.

   b. Launch the installation by entering these commands:

      `chmod 777 wls1035_upgrade_linux32.bin`

   c. Run the installer file in VNC server by executing the following command:

      `./wls1035_upgrade_linux32.bin`

      The Welcome screen is displayed.

5. In the Welcome screen, click **Next**.

   The Choose Middleware Home Directory screen is displayed.

6. Select an existing Middleware Home (<Oracle_Home>/Middleware).

   The Choose Middleware Home Directory screen is displayed with the selected options.

7. Click **Next**.

   The Register for Security Updates screen is displayed.

8. Provide the details of registration for security updates or bypass the registration.

The Register for Security Updates screen is displayed.

9. Click **Next**.
10. In the Choose Products and Components screen, deselect the **Oracle Enterprise Pack for Eclipse** option.
11. Click **Next**.

    The Choose Product Installation Directories screen is displayed.
12. Select the product installation directories.
13. Click **Next** to begin the installation.

    Note: The Installation Complete screen is displayed when the installation is complete.

    If you do not want the Oracle WebLogic console to be displayed, deselect the **Run Quickstart** check box.
14. Click **Done**.

11.3 Upgrading the Service-Oriented Architecture Suite From 11.1.1.4.0 to 11.1.1.5.0

This section describes the steps for upgrading Service-Oriented Architecture (SOA) Suite from version 11.1.1.4.0 to version 11.1.1.5.0.

This section contains the following topics:

- Section 11.3.1, "Downloading the SOA Suite Patch Installer"
- Section 11.3.2, "Running the Installation"
- Section 11.3.3, "Protecting Updates for SOA Configuration"
- Section 11.3.4, "Starting the Servers"
- Section 11.3.5, "Verifying the Installation and Configuration"

11.3.1 Downloading the SOA Suite Patch Installer

Download Patch Installer for SOA 11g Release 1 (11.1.1.5.0) from this location:

`https://updates.oracle.com/download/12395090.html`

11.3.2 Running the Installation

1. Unzip the upgrade installer for SOA suite to a suitable location on the server. Ensure that both part 1 and 2 of the installation are unzipped to the same local folder such that the final contents of this folder are Disks 1 to 5.

   ```
   cd Disk1
   ```

   For Linux: enter `./runInstaller`

   For Windows: double-click **setup.exe**.
2. Navigate to the location where the SOA suite patch is unzipped and execute the following command in VNC server:

   ```
   cd Disk1
   ```

For Linux: enter `./runInstaller`

For Windows: double-click **setup.exe**.

3. Specify the JRE/JDK path that comes as a part of installation.

   For example,

   `/slot/prod/oracle/Middleware/jdk160_24/jre`

   The Installation screen is displayed.

4. In the Specify Inventory Directory screen, click **Browse**, and select the location for Inventory Directory.

   The Specify Inventory Directory screen is displayed with the selected location.

5. Click **OK**.

   The Inventory Location Confirmation screen is displayed.

6. Select **Continue installation with local inventory**.

7. Click **OK**.

   The Welcome screen is displayed.

8. In the Welcome screen, click **Next**.

9. In the Install Software Updates screen, click **Select Skip Software Updates**.

   The Skip Software Updates screen is displayed with the selected option.

10. Click **Next**.

    The Prerequisite Checks screen is displayed.

11. After the prerequisite checks are complete, click **Next**.

    The Specify Installation Location screen is displayed.

12. Select the existing Middleware Home for installation.

    The Specify Installation Location screen is displayed with the selected location.

13. Click **Next**.

    A warning message is displayed.

14. Click **Yes**.

    The Select Application Server screen is displayed.

15. Select **WebLogic Server**.

    The Select Application Server screen is displayed with the selected option.

16. Click **Next**.

    The Installation Summary screen is displayed.

17. Review the Installation Summary and click **Install**.

    The Installation Progress screen is displayed.

18. When the installation is complete, click **Next**.

    The Installation Complete screen is displayed when the installation is complete.

19. Click **Finish**.

11.3.3 Protecting Updates for SOA Configuration

When the Administration Server is started, the contents of the config/soa-infra directory in your DOMAIN_HOME are overwritten by the Administration Server. However, SOA configuration parameters are updated only on Managed Servers and on a per-server basis, all updates to the SOA configuration are lost when the Managed Servers are restarted; if the system hosting the Administration Server does not have an updated copy.

The ant-soa-util.xml script in your SOA_ORACLE_HOME/bin directory can be used to resolve this issue. The script does the following:

Note: The script must be run before you try to start the Administration Server or any of the Managed Servers.

- Moves the config/soa-infra (on UNIX operating systems) or config\soa-infra (on Windows operating systems) to the DOMAIN_HOME/soa_backup/config/soa-infra (on UNIX operating systems) or DOMAIN_HOME\soa_backup\config\soa-infra (on Windows operating systems) directory.
- Replaces the startManagedWebLogic.sh (on UNIX operating systems) or startManagedWebLogic.cmd (on Windows operating systems) scripts with versions that prevent the Managed Servers from starting.

To run the **ant-soa-util.xml**, execute the following commands at command prompt:

- `source <MIDDLEWARE_HOME>/wlserver_10.3/server/bin/setWLSEnv.sh`

  For example,

  `source /slot/prod/oracle/Middleware/wlserver_10.3/server/bin/setWLSEnv.sh`

- `cd <SOA_ORACLE_HOME>/bin`

  For example,

  `cd /slot/prod/oracle/Middleware/Oracle_SOA1/bin`

- `ant -f ant-soa-util.xml`

Build successful message is displayed.

11.3.4 Starting the Servers

To get your deployments up and running, you must start the Administration Server and various Managed Servers. You can either start the servers using WebLogic Scripting Tool (WLST) and Node manager or perform the following steps:

1. To start the Administration Server, run the following script as per your platform in the directory where you created your new domain.

   On UNIX operating systems:

   `DOMAIN_HOME/startWebLogic.sh`

   On Windows operating systems:

   `DOMAIN_HOME\startWebLogic.cmd`

Note that the domain name and location are the values you entered for these in the Specify Domain Name and Location screen of the Configuration Wizard when you installed Foundation Pack version 11.1.1.14.

2. To start the Managed Servers, run the following commands as per your platform.
   - **On UNIX operating systems**: `startManagedWebLogic.sh`
   - **On Windows operating systems**: `startManagedWebLogic.cmd`

     Run the script in the bin directory inside the directory, where you created your domain.
3. Start these managed servers from the command line.

   Specify a server name. The servers that need to be started are:
   - soa_server1 (Oracle SOA Server)
   - bam_server1 (Oracle BAM Server)

For example, to start Oracle SOA Server on a UNIX operating system:

DOMAIN_HOME/bin/startManagedWebLogic.sh soa_server1

On Windows operating system:

DOMAIN_HOME\bin\startManagedWebLogic.cmd soa_server1

Before you start the managed server, enter the WebLogic Server user name and password.

11.3.5 Verifying the Installation and Configuration

To verify the installation, start your browser and enter the following URLs:

- To access the Administration Server console:

  `http://administration_server_host:administration_server_port/console`

  Enter the user name and password credentials that you specified in the Configure Administrator User name and Password screen of the Configuration Wizard.

  After you login to the console, click **Servers** in the Environment area in the Domain Configuration section. In the table on the **Summary of Servers** page, verify that the `AdminServer` and `soa_server1` all have the status RUNNING in the State column.
- To access Enterprise Manager:

  http://*administration_server_host*:*administration_server_port*/em

11.4 Upgrading the Database Schema

This section contains the following topic:

- Section 11.4.1, "Running the Patch Set Assistant"

11.4.1 Running the Patch Set Assistant

Remember the following points when running the Patch Set Assistant.

1. For upgrading SOA Suite from version 11.1.1.4.0 to version 11.1.1.5.0, upgrade of MDS and ODS Schemas is required.

2. If you are running the Patch Set Assistant for the Oracle Portal schema on an Oracle database, ensure that the aq_tm_processes value in your database is greater than 0. To check, use the following command after connecting to the database:

   ```
   show parameter aq_tm_processes;
   ```

3. If the value returned is 0, use the following command to change the value to 1:

   ```
   alter system set aq_tm_processes=1 scope=both;
   ```

4. Navigate to <Oracle_SOA_home>/bin.

   For example,

   cd /slot/prod/oracle/Middleware/Oracle_SOA1/bin

5. Run the following command to upgrade the MDS schema:

   ```
   ./psa -dbConnectString //<DB_host_name>:<DB_port>/<Db_sid>
   -dbaUserName <DB user 'sys' username> -schemaUserName DEV_MDS
   -logLevel TRACE -invPtrLoc <ORACLE_SOA_HOME> /oraInst.loc
   ```

   For example,

   ```
   ./psa -dbConnectString //server.domain.com:1592/oraclini
   -dbaUserName sys -schemaUserName DEV_MDS -logLevel TRACE
   -invPtrLoc /prod/oracle/Middleware/Oracle_SOA1/oraInst.loc
   ```

   The script prompts for passwords for *sys* and <*MDS user*>.

   A success message is displayed when the upgrade is complete.

6. To verify the upgrade, run the following commands after connecting to the database as *sys*.

   ```
   SQL> SELECT VERSION, STATUS, UPGRADED FROM SCHEMA_VERSION_
   REGISTRY WHERE OWNER='DEV_MDS';

   VERSION STATUS U

   ----------------------------- ----------- -

   11.1.1.5.0 VALID Y
   ```

7. Similarly, use this command to upgrade SOAINFRA:

   ```
   ./psa -dbConnectString //server.domain.com:1592/oraclini
   -dbaUserName sys -schemaUserName DEV_SOAINFRA -logLevel TRACE
   -invPtrLoc /slot/prod/oracle/Middleware/Oracle_
   SOA1/oraInst.loc
   ```

8. To verify SOAINFRA upgrade, use the following command:

   ```
   SQL> SELECT VERSION, STATUS, UPGRADED FROM SCHEMA_VERSION_
   REGISTRY WHERE OWNER='DEV_SOAINFRA';

   VERSION STATUS U

   ----------------------------- ----------- -

   11.1.1.5.0 VALID Y
   ```

11.5 Upgrading the Foundation Pack From 11.1.1.4 to 11.1.1.5

To upgrade the foundation pack, refer to the following link for more information:

http://docs.oracle.com/cd/E21764_01/doc.1111/e17949/upgrade.htm#CIACFGIJ

This section contains the following topics:

- Section 11.5.1, "Installing Foundation Pack 11.1.1.5"
- Section 11.5.2, "Running the Enterprise Object Library Upgrade Utility"
- Section 11.5.3, "Running the Upgrade Script"

11.5.1 Installing Foundation Pack 11.1.1.5

1. At the command prompt, run the following command:

   ```
   chmod -R 777 <AIA_HOME>
   ```

2. Download aiafp.zip for Foundation Pack version 11.1.1.5 RTM from the edelivery page or an appropriate location.
3. Unzip the aiafp.zip file to the appropriate location on the server, and then navigate to aiafp/Disk1 directory in this location:

   ```
   cd <fp unzip location>/aiafp/Disk1
   ```

   For example,

   ```
   cd /prod/oracle/aiafp/Disk1/
   ```

4. Run the following command from VNC Server.

   ```
   ./runInstaller -invPtrLoc <Oracle_Home>/Middleware/Oracle_SOA1/oraInst.loc -jreloc <location of jre>
   ```

   For example,

   ```
   ./runInstaller -invPtrLoc /slot/prod/oracle/Middleware/Oracle_SOA1/oraInst.loc -jreloc /slot/prod/oracle/Middleware/jdk160_24/jre
   ```

   The Welcome screen is displayed.

5. Click **Next**.

   The Prerequisite Checks screen is displayed.

6. After the prerequisite checks are complete, click **Next**.

   The Installation Location screen is displayed.

7. Select the existing AIA Home. AIA Instance for upgrade is automatically selected.

   The Installation Location screen is displayed with the selected option:

8. Click **Next**.

   A warning message is displayed.

9. Click **Yes** in the warning message.

   The Installation Summary screen is displayed.

10. Review the installation summary and click **Install**.

    The Installation Progress screen is displayed.

11. Click **Next**.

    The Configuration Progress screen is displayed.

12. Click **Next**.

    The Installation Complete screen is displayed.

13. Click **Finish** when the installation is complete.

11.5.2 Running the Enterprise Object Library Upgrade Utility

The Enterprise Object Library (EOL) Upgrade Utility upgrades the latest EOL with customizations made to the previous EOL.

After running the EOL Upgrade Utility, it generates the following reports:

- EOLMergeUtility_AutoLog_<TimeStamp>.log

  Captures all automated (trivial) merges.

- EOLMergeUtility_ManualActionLog_<TimeStamp>.log

  Captures all conflicts and the manual actions the user must perform.

- EOLMergeUtility_DetailedLog_<TimeStamp>.log

  Captures a detailed merge report, including post-merge validations.

The reports are generated in the following default location:

${AIA_INSTANCE}/logs/EOLUpgrade

Foundation Pack recommends running the EOL utility using the following two-step process:

1. Run the EOL Upgrade Utility in Report mode.

   In Report mode, reports are generated and the utility does not perform the merge. Refer to these reports to preview the changes that are made when you run the utility in Upgrade mode to perform the actual merge.

   Once you have run the utility in Report mode, perform all of the changes suggested in the generated `EOLMergeUtility_ManualActionLog_<TimeStamp>.log` before running the utility in Upgrade mode.

   For information about how to address manual changes suggested in the `EOLMergeUtility_ManualActionLog_<TimeStamp>.log`, see *Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture* (Step 5: Review the Output File).

   a. Source `aiaenv.sh` from the <AIA_HOME>/aia_instances/<aia_instance>/bin.

   b. Navigate to the `<AIA_HOME>/AIAFPUpdates/Update_AIAFP111150/config` folder.

   c. Execute the following script:

      ```
      ant -f EOLUpgradeUtility.xml
      ```

2. Run the utility in upgrade mode to perform the actual merge process.

   If you have already addressed the manual changes suggested in the `EOLMergeUtility_ManualActionLog_<TimeStamp>.log` report generated in step 1, the report should not contain any issues after running the utility in upgrade mode. This indicates that the merge is successfully complete.

   a. Access the <AIA_HOME>/AIAFPUpdates/Update_AIAFP111150/config folder.

b. Open the **EOLUpgradeUtility.xml** file in edit mode.

c. To run the utility in Upgrade mode, modify the <arg value="report"/> argument of the Java task report as follows:

<arg value="upgrade"/>

d. Save the file.

e. Access the <AIA_HOME>/AIAFPUpdates/Update_AIAFP111150/config folder.

f. Execute the following script:

```
ant -f EOLUpgradeUtility.xml
```

11.5.3 Running the Upgrade Script

Perform the following steps to upgrade to Foundation Pack 11g Release 1 (11.1.1.5.0).

To run the upgrade script delivered with Foundation Pack 11g Release 1 (11.1.1.5.0):

1. Ensure that the SOA server is running.

   To start the SOA server, access the Oracle WebLogic Server Administration Console:

   http://<admin server hostname>:<admin server port>/console.

   Navigate to **Environment**, and then to Servers screen. Select the **Control** tab and start <soa_server>.

2. Navigate to `$AIA_INSTANCE/AIAMetaData/config`.

3. Open the AIAConfigurationProperties.xml file in edit mode.

4. Search for ModuleConfiguration with the name ErrorHandler and add the following property in the ErrorHandlerModuleConfiguration.

   <Property name="EH.AIACOM_OFM_EXT.IMPL">oracle.apps.aia.industry.comms.eh.AIAOrderFalloutErrorHandlerExtension</Property>

5. Save the file.

6. Navigate to `<AIA_HOME>/aia_instances/<aia_instance>/bin` and run the following command as per your platform to configure the installation environment:

   - On Linux: `source aiaenv.sh`
   - On Windows: `aiaenv.bat`

7. Navigate to the `<AIA_HOME>/AIAFPUpdates/Update_AIAFP111150/config` folder.

8. Execute the following script:

   ```
   ant -f UpdateAIAFP111150.xml -DfromVersion=11.1.1.4.0
   ```

9. Validate the upgrade.

   a. Access the Oracle Enterprise Manager (http://<admin server hostname>:<admin port>/em /) and log in using the valid credentials.

   b. Navigate to Farm.

   c. Expand Farm_soa_domain, SOA, soa infra, and default in the left panel.

d. Navigate to Deployed Composites in the main panel and verify that you can view the following composites:
   - AIAB2BErrorHandlerInterface
   - AIAB2BInterface
   - ReloadProcess
   - AIAAsyncErrorHandlingBPELProcess
   - AIAReadJMSNotificationProcess
   - AIAErrorTaskAdministrationProcess

e. Navigate to the AIA Home Page (*http://<managed server hostname>:<managed server port number>/AIA/*) and log in using valid credentials.

f. Navigate to the Composite Application Validation System, Project Lifecycle Workbench, and the AIA setup pages.

g. Verify that the UI tabs for each application are accessible.

11.6 Applying the Foundation Pack Rollup Patch

Apply the Foundation Pack Rollup patch (RUP) after the Foundation Pack upgrade is performed.

Download the RUP 13247584 from MOS.

For more information on installing the RUP, refer to the readme.txt that is present inside the downloaded RUP zip file.

11.7 Upgrading the Process Integration Pack From 3.1 to 11.1

This section summarizes the Study, Subject, and Visit Synch: Siebel Clinical - Oracle Clinical upgrade installation instructions and contains the following topics:

- Section 11.7.1, "Upgrading the PIP Installation"
- Section 11.7.2, "PIP Upgrade Configuration Changes"

11.7.1 Upgrading the PIP Installation

Perform the following steps to upgrade the PIP installation from version 3.1 to 11.1:

1. Download **Oracle® Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical Release 11.1** from the edelivery page or appropriate location.
2. Unzip aia-sc_oc-pip.zip to any location on the server.
3. Navigate to **sc_oc-pip > Disk1**.
4. Follow the launch instructions for your platform. Table 11–1 lists the commands that you must use based on your platform. Installer launches the Welcome screen.

Table 11–1 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	At the command line prompt, enter: `./runInstaller -invPtrLoc <SOA_HOME>/oraInst.loc -jreloc <location of the jre specific to your operating system. This directory should have /bin/java>`
Microsoft Windows 2008 (32-bit or 64-bit)	Double-click **setup.exe**.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Next**.
8. Review the installation summary. To save the Response file, click **Save**.

   The Response file stores the values that you previously entered and are on the summary page. If you want to do the install again, you can run a command and the installer performs a silent install with inputs from Response file instead of using the wizard.

   This is an example of the command. Observe the `-silent` and `-response` arguments.

   ```
   ./runInstaller -invPtrLoc <SOA_Home>/oraInst.loc -jreLoc
   <location of the jre specific to your operating system>
   -silent -response <full path to response file>
   ```

9. Click **Install**. A warning message is displayed.

   The warning message: *This installation will overwrite your AIAHOME with new content. Should your AIAHOME have customizations that you wish to preserve, please make a backup before you proceed. Are you sure you are ready to continue with the current installation? is displayed.*

   Click **Yes** to proceed with the installation.

   Or

   Click **No** to go back to the previous screen. For backing up the AIAHOME and preserving customizations, see Section 5.1.
10. Click **Next**.
11. Click **Finish**.

11.7.2 PIP Upgrade Configuration Changes

Run the PIP Configuration Wizard, only when there is a change in the configuration of the installed PIP that requires a change. Else, skip this step. Note that this also imports the new seed data. Refer to the section Section 11.10 for details.

11.8 Running the Upgrade Deployment Plan

To run the PIP Upgrade Deployment Plan, execute the following commands:

- On Linux: `source aiaenv.sh`
- On Windows: `aiaenv.bat`

Table 11–2 Deployment commands

Platform	Deployment Command
Linux x86 Linux x86 (64-bit) Solaris SPARC (64-bit)	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/StudySubjectVisitSyncSCandOC/DeploymentPlans/StudySubjectVisitSyncSCandOCUpgradeDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <location and name for log file to be created>`
Microsoft Windows 2008 (32-bit or 64-bit)	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\StudySubjectVisitSyncSCandOC\DeploymentPlans\StudySubjectVisitSyncSCandOCUpgradeDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -l <location and name for log file to be created>`

You will be prompted to enter the admin user name and password. Enter the admin user name and password.

11.9 Performing Post Upgrade Tasks

This section contains the following topics:

- Section 11.9.1, "Redeploying the Oracle Clinical Web Services"
- Section 11.9.2, "Starting Siebel Workflow Monitor Agent"
- Section 11.9.3, "Enabling Oracle Clinical AQ Dequeue"

11.9.1 Redeploying the Oracle Clinical Web Services

If you have not redeployed the OracleClinical.ear file while installing OC 4.6.5, you must undeploy the existing OracleClinical.ear file and redeploy the file that is shipped with OC 4.6.5. For more information, see *Oracle Clinical Application Programming Interface Guide*.

11.9.2 Starting Siebel Workflow Monitor Agent

Start the Siebel Workflow Monitor agent using the following steps:

1. Navigate to **Site Map > Administration - Server Configuration > Enterprises > Component Definitions** and query for **Workflow Monitor Agent**.
   a. Under **Component Parameters**, query for **Group Name** and change the group name to **LS Clinical Rollup** in the Component Parameter applet.
   b. Change the action interval to 5.
   c. Click **Advanced**.
   d. Change the sleep time to 15.
   e. Change the default task to 1.
   f. Synchronize the components.
2. Navigate to **Site Map > Administration - Server Management > Servers > Component Groups** and query for **Workflow Management**.
   a. Under **Component**, query for **Workflow Monitor Agent**.
   b. Click **Startup**.

11.9.3 Enabling Oracle Clinical AQ Dequeue

Perform the following steps to enable Oracle Clinical AQ Dequeue:

1. Connect to Oracle Clinical Database as an rxc user.
2. Execute the following command:

```
execute DBMS_AQADM.START_QUEUE(queue_name => 'CLINICAL_STUDY_
QUEUE' , dequeue => true, enqueue => true);

commit;
```

11.10 Updating the Seed Data

This section describes the steps for importing the seed data. This is an optional step, and is necessary only when the generation of BOM or deployment plan is required after the upgrade is done.

If you are upgrading the PIP, this import will create an additional project in the AIA PLW. It will not modify the existing project in PLW. The existing project in PLW will not work for BOM and DP generation with the FP 11.1.1.5.0. If the BOM and DP generation is required, you must execute the below steps and make sure to delete the old project. Any customizations made to the old project must be done again for the new project.

Run the following commands in the command prompt to import updated seed data for PIP 3.1:

Table 11–3 Commands

Platform	Deployment Command

Linux x86
Linux x86 (64-bit)
Solaris SPARC (64-bit)
	`cd $AIA_HOME/Infrastructure/LifeCycle/PLWImExport/`
	`./PLWImport.sh -f $AIA_HOME/data/StudySubjectVisitSyncSCandOC/`
	`PLWSeedData/StudySubjectVisitSyncSCandOCSeed.xml`

Microsoft Windows 2008 (32-bit or 64-bit)	`cd %AIA_HOME%\Infrastructure\LifeCycle\PLWImExport\`
	`.\PLWImport.sh -f %AIA_HOME%\data\StudySubjectVisitSyncSCandOC\`
	`PLWSeedData\StudySubjectVisitSyncSCandOCSeed.xml`

Verify in the PLW screen that project StudySubjectVisitSyncSCandOC with Version 11.1 and project Industry as blank is present.