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Preface

Welcome to *Oracle Application Integration Architecture Installation Guide for Process Integration Packs*.

Using This Guide

Use this guide following the steps mentioned below for a faster and smoother installation.

1. If your PIP requires Foundation Pack, install Foundation Pack using steps described in *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*
2. Ensure that you review the release notes for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0) available on Oracle Technology Network at `http://www.oracle.com/technetwork/middleware/docs/aiasoarelnotes-196861.html`
3. Search for *Oracle Application Integration Architecture Installation Guide for Process Integration Packs 3.1* in My Oracle Support and download the latest version. This guide is constantly updated and bug fixed.
4. Search for your PIP specific *Known Issues and Workarounds* documents in My Oracle Support and download it/them.
5. Check hardware requirements.
6. Fulfill software requirements for your PIP.
7. Fulfill pre-installation configurations.
8. Read Section 1.2, "Understanding Screens Sequence in Configuration Wizard."
9. Read Section 1.5, "Understanding PIPs Co-deployment."
10. REad Section 1.6, "Understanding Installation and Deployment Topologies."
11. Complete the Installer Interview section for your PIP.
12. Install PIPs / Direct Integration
13. Verify installation.
14. Refer to your Implementation Guide for complete PIP implementations.
15. Refer to participating applications documentation and patches information.

Note: If you are upgrading the PIP/Integration from version 2.x, see *Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*

Related Documents

The Oracle Application Integration Architecture Process Integration Pack 3.1 release is based on functionality provided in Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0).

The following guides provide coverage of this Foundation Pack release:

- Oracle Fusion Middleware Concepts and Technologies Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)
- Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)
- Oracle Fusion Middleware Infrastructure Components and Utilities User's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)
- Oracle Fusion Middleware Reference Process Models User's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)
- Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)
- Oracle Fusion Middleware Product to Guide Index for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)

Additional Resources

The following resources are also available:

Resource	Location
Known Issues and Workarounds	My Oracle Support: https://support.oracle.com/
Release Notes	Oracle Technology Network: http://www.oracle.com/technology/
Documentation updates	My Oracle Support: https://support.oracle.com/

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

Understanding the Oracle AIA Installation Process

This guide provides an overview of the Oracle Application Integration Architecture (AIA) Process Integration Pack (PIP) and Direct Integrations installation process.

This chapter includes the following sections:

- Section 1.1, "Understanding Oracle AIA Installer"
- Section 1.2, "Understanding Screens Sequence in Configuration Wizard"
- Section 1.3, "Understanding Routing Rules Configuration in Enterprise Business Services"
- Section 1.4, "Understanding Additional PIPs Installation or Applying Patches"
- Section 1.5, "Understanding PIPs Co-deployment"
- Section 1.6, "Understanding Installation and Deployment Topologies"

> **Note:** For information about how to migrate 2.4 and 2.5 PIP extensions to the 3.1 PIP, see *Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture 11g Release 1 (11.1.1.4.0)*.

1.1 Understanding Oracle AIA Installer

AIA Installer is built on Oracle Universal Installer and enables you to install products included in AIA. AIA 3.1 includes the following PIPs and direct integrations:

- Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release 3.1 (Design to Release: Agile - EBS / PIM PIP)
- Oracle Design to Release Integration Pack for Agile Product Lifecycle Management and JD Edwards EnterpriseOne 3.1 (Design to Release: Agile - JDE E1 PIP)
- Oracle Design to Release Integration Pack for Agile Product Lifecycle Management for Process and Oracle Process Manufacturing 3.1 (Design to Release: Agile PLM for Process - OPM PIP)
- Siebel CRM Integration Pack for Oracle Order Management: Order to Cash 3.1 (Order to Cash: Siebel CRM - EBS PIP)
- Siebel CRM Integration to Oracle Incentive Compensation 3.1 (Siebel CRM to OIC)

- Oracle CRM On Demand Integration Pack for JDEdwards EnterpriseOne: Lead to Order 3.1 (Lead to Order: CRM OD - JDE E1)
- Oracle Lead to Order Integration Pack for Oracle CRM On Demand and Oracle E-Business Suite 3.1 (Lead to Order: CRM OD - EBS)
- Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandise Operations Management and PeopleSoft Enterprise Financials 3.1 (Financials Ops Control: Oracle Retail - PeopleSoft PIP)
- Oracle Financial Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1 (LSP Financial Mgmt: OTM - EBS PIP)
- Oracle Order Management Integration Pack for Oracle Transportation Management, Oracle E-Business Suite, and Siebel CRM 3.1 (LSP Order Mgmt: OTM - EBS - Siebel CRM PIP)
- Oracle Driver Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1 (LSP Driver Mgmt: OTM - EBS PIP)
- Oracle Value Chain Planning Integration Base Pack 3.1 (VCP to XML Integration)
- Oracle Project Portfolio Management Integration Pack for Primavera P6 and Oracle E-Business Suite 3.1 (Project Portfolio Management: Primavera P6 - EBS PIP)
- Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne 3.1 (Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP)
- Oracle Study, Subject, and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical 3.1 (Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical)
- Oracle Clinical Trial Payments Integration Pack for Siebel Clinical 3.1 (Clinical Trial Payments: Siebel Clinical)
- Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite 3.1 (Serialization and Tracking: OPSM - EBS)
- Oracle Workforce Administration Integration Pack for PeopleSoft Human Resources 3.1 (Workforce Administration for PeopleSoft HR)
- Oracle Process Integration Pack for Oracle Utilities Field Work 3.1 (Utilities Field Work PIP)

Using AIA Installer, you lay down the files associated with selected AIA components. You can also use AIA Installer to uninstall AIA.

AIA Installer is platform independent.

For information about system requirements and supported platforms for Oracle Application Integration Architecture 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.

For information about system requirements and supported platforms for Oracle Application Integration Architecture 3.x, search for System Requirements and Supported Platforms for Oracle Application Integration Architecture 3.x on http://www.oracle.com/technetwork/middleware/ias/downloads/fusion-certification-100350.html and download the xls file.

1.2 Understanding Screens Sequence in Configuration Wizard

AIA PIP Installer and Configuration Wizard help you install the PIPs and configure the PIPs that are delivered in this release on Foundation Pack. The screens that appear when you run the Configuration Wizard are based on whether you choose to configure single or multiple PIPS. This section discusses various configuration options and screens that appear.

1.2.1 Configuring a PIP

When you configure a PIP, Configuration Wizard prompts for PIP specific information. Refer to respective PIP installation chapters for PIP specific screens.

1.2.2 Configuring Multiple PIPs

When you configure more than one PIP, either together or by installing the PIP(s) over an existing PIP installation, then the following occurs.

- When multiple PIPs are selected for configuration at the same time, and these PIPs have one or more common participating applications, Configuration Wizard queries for common details only once.

  For example, if PIP1 and PIP2 both connect to Oracle E-Business Suite, then the information for this participating application will be collected only once.

- When configuring PIP(s) over an existing configuration which has one or more PIPs, and the new PIPs selected for configuration share one or more participating applications with existing PIPs, then the common application information will not be collected again.

  For example, when the first run of the Configuration Wizard configures PIP1 and the second run tries to configure PIP 2, and PIP 2 shares a participating application with PIP1 such as Oracle E-Business Suite, then Configuration Wizard will not query the details related to Oracle E-Business Suite again.

> **Note:** The configuration screen sequence described in the specific PIP installation chapters is based on the assumption that you are configuring a PIP for the first time, and that you are configuring only one PIP at a time.

1.3 Understanding Routing Rules Configuration in Enterprise Business Services

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

1.3.1 Installing Only One PIP

When you install a single PIP the Enterprise Business Services (EBS) for that PIP are deployed with all default routing rules delivered by AIA.

1.3.2 Installing More Than One PIP at a Time

When you install multiple PIPs at the same time, the EBS that are used by more than one PIP do not get deployed. You need to manually configure the routing rules to suit

the functional scenario for the combination of the PIPs. However, the routing rules that were delivered through only one of PIPs get deployed.

The routing rules for the same EBS delivered through other PIPs are available in `AIA_HOME/pips/<PIP Name>/EBS`. The install log provides information about the EBS for which you need configure routing rules. The install log reads, "<EBS Name> already deployed. The routing rules for PIP <PIP Name have not been added. `AIA_HOME/pips/<PIP Name>/EBS` contains Oracle Delivered EBS with routing rules for this PIP".

For more information about how to use these delivered routing rules to design and implement your own AIA routing rules and the associated AIA configuration properties, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*.

Note: For EBS that are not shared between the PIPs, all the default routing rules delivered with the PIP are deployed.

1.3.3 Installing Additional PIP(s)

When you install one or more PIPs over an existing installation of PIP(s), the EBS that are used by more than one PIP, or which are already available through earlier installation do not get deployed. You need to manually configure the routing rules to suit the functional scenario for the combination of the PIPs. However, the routing rules that were delivered through only one of PIPs or which are not already available through earlier installation are deployed.

The routing rules for the same EBS delivered through other PIPs are available in `AIA_HOME/pips/<PIP Name>/EBS`. The install log provides information about the EBS for which you need configure routing rules. The install log reads, "<EBS Name> already deployed. The routing rules for PIP <PIP Name have not been added. `AIA_HOME/pips/<PIP Name>/EBS` contains Oracle Delivered EBS with routing rules for this PIP".

For more information about how to use these delivered routing rules to design and implement your own AIA routing rules and the associated AIA configuration properties, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*.

Note: For EBS that are not shared between the PIPs, all the default routing rules delivered with the PIP are deployed.

1.4 Understanding Additional PIPs Installation or Applying Patches

This section discusses the key tasks that you need to perform before you install additional PIPs on your existing PIPs or when you apply patches to your existing PIPs:

- Back up Custom EBOs:

  These are AIA schema extensions performed on EBOs. Though the AIA Installer automatically preserves these schema extensions, it is advisable to back up the custom directory. For example, all custom xsd files for core EBOs can be accessed from `AIA_HOME/AIAMetaData/AIAComponents/EnterpriseObjectLibrary/Core/Custom/EBO/` or `AIA_`

```
HOME/AIAMetaData/AIAComponents/EnterpriseObjectLibrary/Industry/<Industry Name>/Custom/EBO
```

- Back up Custom XSLTs:

  These are the extensions performed on the AIA Transformation style sheet. AIA does not contain any Extensible Stylesheet Language Transformations (XSLTs) for its components and utilities. Because the process content is delivered only in PIPs, you need to 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 EBS WSDL:

  If you have customized any EBS WSDL that is delivered / shipped with AIA, you need to back it up and manually merge the changes that you made post installation.

- Back up Custom Routing Rules in the Enterprise Business Services (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 need to manually take a back up of the EBS. You need to merge the EBS manually as a post installation step.

- Back up the AIAConfigurationProperties.xml file located in the CONFIG folder under the AIA HOME and merge custom inclusions in the CONFIG file and change properties as required after installation.

1.5 Understanding PIPs Co-deployment

Before you install multiple PIPs on a single SOA instance, refer to My Oracle Support note 881206.1 to review the AIA PIP Co-Deployment Matrix and check whether your PIP combination is supported on a single instance. The PIP Shared Artifact Analyzer tool generates a report of the PIPs that can be installed on a single SOA instance. You can find the tool and related documentation on My Oracle Support note 782351.1.

To install multiple PIPs that do not support co-deployment, you must install each PIP on a separate SOA instance. If you install an unsupported PIP combination on a single SOA instance, you might need to make custom changes to accommodate any resulting functional impacts or common PIP components, such as common routing rules.

1.6 Understanding Installation and Deployment Topologies

There are several installation and deployment topologies possible using AIA Installer. Choose the installation that best suits your need. Refer to the whitepaper *AIA Installation and Deployment -Strategies, Topologies and Flexibilities* on www.oracle.com for more details.

Only one instance of each participating application can participate in any given process integration when installed through the AIA Installer. After installing using AIA Installer, you can configure process integrations to connect to multiple instances.

If you install the Financials Ops Control: Oracle Retail - PSFT PIP or the Financials Ops Control: Oracle Retail - EBS PIP, the Oracle Data Integrator (ODI) software can reside on the same server where Foundation Pack resides or on another server for production environments. However, for installation purposes you need the ODI software on the same server where Foundation Pack is installed. When you install the PIP, the PIP artifacts for the ODI get loaded into the Oracle database that you provide. You can connect the ODI software on your production server to this Oracle database.

2

Installing the Design to Release: Agile - EBS / PIM PIP

This chapter discusses how to install the Design to Release: Agile - EBS / PIM PIP. This chapter includes the following sections

- Section 2.1, "Software Requirements"
- Section 2.2, "Configuration Wizard Interview"
- Section 2.3, "Performing Pre-Installation Configurations"
- Section 2.4, "Installing Design to Release: Agile - EBS / PIM PIP"
- Section 2.5, "Verifying Installation"
- Section 2.6, "Undeploying the Design to Release: Agile - EBS / PIM PIP"

2.1 Software Requirements

The Design to Release: Agile - EBS / PIM PIP requires:

1. Agile Product Lifecycle Management releases 9.2.2.x or 9.3.x with patch 12986698.

   The latest AIA patch for the Design to Release: Agile - EBS / PIM PIP is 12543953.

2. If Agile is running on Oracle Application Server (OAS), apply the following patches depending on your version. These patches are not required if Agile is running on Weblogic Server (WLS).
   - Agile Product Lifecycle Management releases 9.2.2.6 with patch 10276383.
   - Agile Product Lifecycle Management releases 9.2.2.7 with patch 10276386.
   - Agile Product Lifecycle Management releases 9.3 with patch 10011995.
   - Agile Product Lifecycle Management releases 9.3.0.1 with patch 10276392.
   - Agile Product Lifecycle Management releases 9.3.0.2 with patch 10276395.
   - Agile Product Lifecycle Management releases 9.3.1 with patch 10276397.

   Note: If you are using Agile 9.3.1 on Weblogic and if you are using an Oracle RAC database for the FMW server, the database driver in Agile must be a thin client driver, not an XA driver, which is the default when creating a new data source in Agile.

3. Add the following patches for Variant Management (VM).

- If you are using VM and Agile 9.3.0.0, apply patches # 9233009 and # 10288124.
- If you are using VM and Agile 9.3.0.1, apply patches # 9305555 and # 10288124.
- If you are using VM and Agile 9.3.1, apply patch # 10288124.

Note: VM is not supported in Agile 9.3.0.2.

For more information about deploying the Design to Release: Agile - EBS / PIM PIP extensions, see Deploying the Design to Release: Agile - EBS / PIM PIP Components on the Agile PLM Server.

4. One of the following Oracle E-Business Suite: Discrete Manufacturing, with the patches:
   - EBS 11i - 11.5.10CU2 + 11i.ATG_PF.H.delta.7 + 9945762 + 12615044.
   - EBS R12 - 12.1.1 + 8640262:R12.INV.B, 9335882:R12.INV.B, 9945332:R12.INV.B, 10397048:R12.INV.B, 10632813:R12.OWF.B, 8622332:R12.CZ.B (For Variant Management)
   - EBS R12 - 12.1.2 + 8942177:R12.ITM.C, 8941665:R12.EGO.C, 8839091:R12.BOM.C, 9535244:R12.ENG.C, 9335882:R12.INV.B, 9548336:R12.ITM.C, 9945332:R12.INV.B, 10397048:R12.INV.B, 10632813:R12.OWF.B.
     - For 12.1.2 with PIM option, apply the following additional patches - 9070077:R12.OWF.B, 9462433:R12.OWF.B
   - EBS R12 - 12.1.3 + 9945332:R12.INV.B, 10397048:R12.INV.B, 10632813:R12.OWF.B, 11654417:R12.ITM.C.

2.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Design to Release: Agile - EBS / PIM PIP. Enter the details of the Design to Release: Agile - EBS / PIM PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

2.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 2–1 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. 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. Example: `7001`. The Admin Port is _____

Table 2–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

2.2.2 Agile PLM Details Screen

Use this screen to enter details related to your Agile PLM instance. The screen contains the following fields:

Table 2–2 Agile PLM Details Screen fields

Field	Description
Agile PLM Host	This value is the machine name. Example: `example1.corp.oracle.com`. Agile PLM Host is _____
Agile PLM Port	This is the http port. This value depends on the web server port and operating system of your Agile PLM instance. To find this value, contact your Agile PLM administrator. Example: `80`. Agile PLM Port is _____
Agile PLM Virtual Path	This value is the same virtual path entered during the Agile PLM installation. Example: `Agile`. Agile PLM Virtual Path is _____
Agile PLM Integration Username	This is the Agile PLM admin access username. Example: `admin`. Agile PLM Integration Username is _____
Agile PLM Integration User Password	To find this value, contact your Agile PLM administrator. Agile PLM Integration User Password is _____
Agile Version	This is a drop down list of Agile PLM Application Versions, which are: `9.2.2.x,` where 'x' can be either 6 or 7. `9.3.x`, where 'x' as of this release is 1 or 0. `9.3.x with VM`, where 'x' as of this release is 1 or 0.

2.2.3 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance. The screen contains the following fields:

Table 2–3 Oracle E-Business Suite Server Details Screen fields

Field	Description
E-Business Suite Version	This is a drop down list of Oracle E-Business Suite Application versions, which are: 11.5.10 CU2 12.1.1 12.1.2 12.1.3 12.1.1 with PIM 12.1.2 with PIM 12.1.3 with PIM
E-Business Suite Host Name	This value is the machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `SID.server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is _____ _____. This field is not used in Design to Release: Agile - EBS/PIM PIP.

2.2.4 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.The screen contains the following fields:

Table 2–4 Oracle E-Business Suite Database Details Screen fields

Field	Description
E-Business Suite Database Host	This value is the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____

Table 2–4 (Cont.) Oracle E-Business Suite Database Details Screen fields

Field	Description
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____
Database Schema	To find this value, contact the database administrator. Example: `apps`. Database Schema is _____ All the database credentials are used for creating the connection pool URL (universal resource locator) and data source URLs.

2.3 Performing Pre-Installation Configurations

If Oracle E-Business Suite 12.1.x with PIM release is being used for PIP installation, enable the *Generate Item Number and Description Service* in Oracle E-Business Suite. Before you enable this service, apply the required patches on Oracle E-Business Suite as mentioned in Software Requirements section:

To enable the Generate Item Number and Description Service in Oracle E-Business Suite:

1. Login as SYSADMIN into Oracle Apps.
2. Go to **Integrated SOA Gateway** responsibility.
3. Click **Integration Repository**.
4. Select view-by as **Interface** Type.
5. Navigate to **Business Service Object**, **Discrete Manufacturing**, **Inventory Management**.
6. Click **Generate Item Number and Description Service**.
7. Click the **Redeploy/Deploy Web Service** button.

   You will be able to view Deployed WSDL URL under Abstract WSDL URL.
8. Click the deployed WSDL link and verify whether WSDL is open. Also try accessing the imported schema location

   http://<host>:<port>/webservices/AppsWSProvider/oracle/apps/inv/ebi/item/GenerateItemNumberService.xsd. You should get the following message in the browser

   "Return List Generated Item Number and Description"

   On View Source, the XSD should be visible.

9. Provide **Grant** to the Integration User for this web service.
10. Select the method **getItemListNumberDescription** and clickthe **Create Grant** button on the bottom of the page.
11. Specify the User and click **Apply**.

    If there any issues, refer to *Oracle E-Business Suite Integrated SOA Gateway Troubleshooting Guide:* https://support.us.oracle.com/oip/faces/secure/km/DocumentDisplay.jspx?id=726414.1 and Installing Oracle E-Business Suite Integrated SOA Gateway, Release 12: https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=556540.1

2.3.1 Installing Variant Management

Variant Management is a patch for the Agile PLM 9.3 release. To use Agile PLM 9.3 with Variant Management for Design to Release: Agile - EBS / PIM PIP, you need to install the patch before you run the AIA Installer.

Note: The Variant Management installer and the relevant documentation can be obtained from eDelivery.

2.4 Installing Design to Release: Agile - EBS / PIM PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

2.4.1 Install the Design to Release: Agile - EBS / PIM PIP

To install the Design to Release: Agile - EBS / PIM PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 2–5 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC HP-UX IBM AIX Based Systems	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	Double-click setup.exe

AIA Installer launches the **Welcome** screen.

5. Click **Next**.
6. Select the AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

2.4.2 Configure the Design to Release: Agile - EBS / PIM PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Design to Release: Agile - EBS / PIM PIP. Keep the completed worksheet of the Design to Release: Agile - EBS / PIM PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Design to Release: Agile - EBS / PIM PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA **Configuration Wizard**.
6. Click **Next.**
7. Select the**Design to Release: Agile - EBS / PIM PIP**
8. Click **Next**.

2.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

2.4.2.2 Specify Agile PLM Application Details

To specify Agile PLM details:

1. Enter information about your Agile PLM installation in the **Agile PLM Details** screen.
2. Click **Next**.

2.4.2.3 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your Oracle E-Business Suite Server installation in the **E-Business Suite Server Details** screen.
2. Click **Next**.

2.4.2.4 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your Oracle E-Business Suite Database installation in the **E-Business Suite Database Details** screen.
2. Click **Next**.

2.4.2.5 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 2.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

2.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

2.4.4 Deploying the Design to Release: Agile - EBS / PIM PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 2–6 Deployment command for the Design to Release: Agile - EBS / PIM PIP

Platform	Deployment Command
Linux Solaris SPARC HP-UX IBM AIX Based Systems	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<instancename>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizSupplementaryDP.xml -l <AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizDP.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia instance>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizSupplementaryDP.xml -l <AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizDP.log`

3. Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

2.5 Verifying Installation

To verify the Design to Release: Agile - EBS / PIM PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 Design to Release: Agile - EBS / PIM PIP queue was installed.
   a. Navigate to the PLM PIP Queue Management console: *http://<server name>:<port number>/queue*
   b. Log in with the server admin user name. For access details, contact the system administrator.
3. Confirm that the Design to Release: Agile - EBS / PIM PIP processes were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

Note: Services marked as **x** are not available.

Table 2–7 Design to Release: Agile - EBS / PIM PIP ESB Services

Mediator Services	12.1.x with PIM + 9.3x with VM	12.1.x with PIM + 9.3x	12.1.x with PIM + 922x	12.1.x + 93x with VM	12.1.x + 93x	12.1.x + 922x	11.5.10 + 93x	11.5.10. + 922x
EBS								
BillOfMaterialsConfigurationEBS		x	x		x	x	x	x
EngineeringChangeOrderEBS								
EngineeringChangeOrderResponseEBS								
ItemBalanceEBS								
ItemBalanceResponseEBS								

Table 2–7 (Cont.) Design to Release: Agile - EBS / PIM PIP ESB Services

Mediator Services	12.1.x with PIM + 9.3x with VM	12.1.x with PIM + 9.3x	12.1.x with PIM + 922x	12.1.x + 93x with VM	12.1.x + 93x	12.1.x + 922x	11.5.10 + 93x	11.5.10. + 922x
ItemEBS								
ItemResponseEBS								
ItemResponseEBSV2							x	x
Adapter Services								
BOMConfigurationService		x	x		x	x	x	x
UpdateEngineeringChangeOrderStatusEbizEventConsumer								
GetEngineeringChangeOrderService								
QueryEngineeringChangeOrderListEbizAdapter								
QueryItemBalanceListEbizAdapter								
QueryItemListEbizAdapter								
QueryResponsibilityEbizAdapter							x	x
SyncBillOfMaterialsConfigurationEbizJMSConsumer		x	x		x	x	x	x
SyncBillOfMaterialsConfigurationEbizJMSProducer		x	x		x	x	x	x
SyncItemListEbizAdapter							x	x
ValidateEngineeringChangeOrderListEbizAdapter							x	x
Agile > ECOQueue								
ACSJMSConsumer								

Also check for the items in the following table.

Note: Processes marked as **x** are not available.

Table 2–8 Design to Release: Agile - EBS / PIM PIP processes

BPEL Processes	12.1.x with PIM + 9.3x with VM	12.1.x with PIM + 9.3x	12.1.x with PIM + 922x	12.1.x + 93x with VM	12.1.x + 93x	12.1.x + 922x	11.5.10 + 93x	11.5.10. + 922x
CreateEngineeringChangeOrderListEbizProvABCSImpl								
CreateQueueService								
GenerateItemNumberService				x	x	x	x	x
GetConfiguratorURLEbizProvABCSImpl	x	x			x	x	x	x
GetConfiguratorURLAgileReqABCSImpl		x	x		x	x	x	x
ProcessEngineeringChangeOrderAgileReqABCSImpl								
QueueProcessorServiceImpl								
SyncBOMConfigurationAgileProvABCSImpl		x	x		x	x	x	x
SyncBillOfMaterialsConfigurationListEbizReqABCSImpl		x	x		x	x	x	x
SyncItemListAgileReqABCS							x	x
SyncItemListAgileReqABCSImpl							x	x

Table 2–8 (Cont.) Design to Release: Agile - EBS / PIM PIP processes

BPEL Processes	12.1.x with PIM + 9.3x with VM	12.1.x with PIM + 9.3x	12.1.x with PIM + 922x	12.1.x + 93x with VM	12.1.x + 93x	12.1.x + 922x	11.5.10 + 93x	11.5.10. + 922x
SyncItemListEbizProvABCSImpl							x	x
UpdateEngineeringChangeOrderListAgileProvABCSImpl								
UpdateEngineeringChangeOrderListEbizReqABCSImpl								
UpdateItemBalanceListAgileProvABCSImpl								
UpdateItemBalanceListEbizReqABCSImpl								
UpdateItemListAgileProvABCSImpl								
UpdateItemListEbizReqABCSImpl								
ValidateEngineeringChangeOrderListAgileReqABCSImpl							x	x
ValidateEngineeringChangeOrderListEbizProvABCSImpl							x	x

4. Confirm that the AIA Foundation Manager components were successfully installed.

   a. Navigate to the AIA Console URL: `http://<server name>:<port number>/AIA`.

   b. Log in with server admin user name.

c. Navigate to **Setup**, **System** to access the **Application Registry** page.

5. Check the rows for the following sets of values:

Table 2–9 Application Registry Values for Agile

Field	Value
Internal ID	AGILE_01
System Code	AGILE_01
System Description	Agile PLM Instance 01
IP Address	IP address of the Agile PLM system
URL	URL of the Agile PLM system
System Type	Agile
Application Type	PLM
Version	9226 (Out of the Box) This can be edited to appropriate version of Agile PLM.

Table 2–10 Application Registry Values for EBS Agile

Field	Value
Internal ID	Database SID (Example: M00MQ102)
System Code	EBIZ_01
System Description	Oracle E-Business Suite Instance 01
IP Address	IP address of the EBS system
URL	URL of the EBS system
System Type	Ebiz
Application Type	EBIZ_01
Version	Oracle E-Business Suite Version (Example: 11.5.10, 12.1.x, 12.1.x with PIM)

2.5.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment

a. Navigate back to **Policies** screen and find the client policy

b. Click the number in **Attachment Count** column.

This opens **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 2–11 Service Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Service Policy
CreateQueueServiceControl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CreateQueueService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorServiceImpl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorServiceImpl_V2	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
GenerateItemNumberService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
TransformAppContextEbizService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 2–12 No Authentication Service Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Service Policy
UpdateEngineeringChangeOrderListEbizReqABCSImpl	oracle/no_authentication_service_policy
UpdateItemListEbizReqABCSImpl	oracle/no_authentication_service_policy
UpdateItemBalanceListEbizReqABCSImpl	oracle/no_authentication_service_policy
SyncBillOfMaterialsConfigurationEbizJMSProducer	oracle/no_authentication_service_policy

Table 2–13 No Authentication Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
EngineeringChangeOrderResponseEBS	UpdateEngineeringChangeOrderListEbizReqABCSImpl	oracle/no_authentication_client_policy
ItemResponseEBSV2	UpdateItemListEbizReqABCSImpl	oracle/no_authentication_client_policy
ItemBalanceResponseEBS	UpdateItemBalanceEbizReqABCSImpl	oracle/no_authentication_client_policy

Table 2–13 (Cont.) No Authentication Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
UpdateEngineeringChangeOrderStatusEbizEventConsumer	UpdateEngineeringChangeOrderListEbizReqABCSImpl_1_0	oracle/no_authentication_client_policy

Table 2–14 Saml Opt On Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
QueueProcessorService	BPELSystem.default.QueueProcessorServiceImpl.QueueProcessorServiceImpl_1_0	oracle/aia_wss10_saml_token_client_policy_OPT_ON
QueueProcessorServiceImpl	ProcessEngineeringChangeOrderAgileReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
QueueProcessorServiceImpl_V2	ProcessEngineeringChangeOrderAgileReqABCSImpl ValidateEngineeringChangeOrderListAgileReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	AIAAsyncErrorHandlingBPELProcess QueryRespEbizAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 2–15 Wss Username Token Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
GenerateItemNumberService	GenerateItemNumberService	oracle/wss_username_token_client_policy(GINServiceKey)
UpdateItemBalanceListAgileProvABCSImpl	ItemBalanceErrorEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
UpdateItemListAgileProvABCSImpl	ItemErrorResponseEBSV2	oracle/wss_username_token_client_policy (AIABasicCredentials)
UpdateEngineeringChangeOrderListAgileProvABCSImpl	EngineeringChangeOrderErrorResponseEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
CreateEngineeringChangeOrderListEbizProvABCSImpl	EngineeringChangeOrderErrorResponseEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
ValidateEngineeringChangeOrderListEbizProvABCSImpl	EngineeringChangeOrderErrorResponseEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
SyncItemListEbizProvABCSImpl	ItemResponseErrorEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
UpdateEngineeringChangeOrderListEbizReqABCSImpl	EngineeringChangeOrderEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)

Table 2–15 (Cont.) Wss Username Token Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
UpdateItemBalanceListEbizReqABCSImpl	ItemBalanceEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)
UpdateItemListEbizReqABCSImpl	ItemEBS	oracle/wss_username_token_client_policy (AIABasicCredentials)

Table 2–16 Wss Http Token Client Policy Attachments for Design to Release: Agile - EBS / PIM PIP

Composite	Reference	Client Policy
ValidateEngineeringChangeOrderListAgileReqABCSImpl	ChangeABSService	oracle/wss_http_token_client_policy(AgileWebServiceKey)
UpdateEngineeringChangeOrderListAgileProvABCSImpl	ChangeABSService MergeABSService ChangeStatusService	oracle/wss_http_token_client_policy(AgileWebServiceKey)
ProcessEngineeringChangeOrderAgileReqABCSImpl	ChangeABSService	oracle/wss_http_token_client_policy(AgileWebServiceKey)
SyncBillOfMaterialsConfigurationListAgileProvABCSImpl	ConfiguratorTerminationService	oracle/wss_http_token_client_policy(AgileWebServiceKey)
UpdateItemListAgileProvABCSImpl	ItemABSService	oracle/wss_http_token_client_policy(AgileWebServiceKey)
UpdateItemBalanceListAgileABCSImpl	ItemABSService	oracle/wss_http_token_client_policy(AgileWebServiceKey)

For more information about security validation, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release 3.1 - Implementation Guide*.

2.6 Undeploying the Design to Release: Agile - EBS / PIM PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 2–17 Undeployment command for the Design to Release: Agile - EBS / PIM PIP

Platform	Undeployment Command
Linux Solaris SPARC HP-UX IBM AIX Based Systems	`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/AgileToEbiz/DeploymentPlans/AgileToEbizDPUndeployDP.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbiz ConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/Agil eToEbizSupplementaryUndeployDP.xml -l <AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizUndeployDP.log`
Microsoft Windows	`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\AgileToEbiz\DeploymentPlans\AgileToEbizDPUndeployDP.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbiz ConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\Agil eToEbizSupplementaryUndeployDP.xml -l <AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

3

Installing the Design to Release: Agile - JDE E1 PIP

This chapter discusses how to install the Design to Release: Agile - JDE E1 PIP. This chapter includes the following sections:

- Section 3.1, "Software Requirements"
- Section 3.2, "Configuration Wizard Interview"
- Section 3.3, "Installing the Design to Release: Agile - JDE E1 PIP"
- Section 3.4, "Verifying Installation"
- Section 3.5, "Undeploying the Design to Release: Agile - JDE E1 PIP"

3.1 Software Requirements

The Design to Release: Agile PLM - JDE E1PIP requires:

- Agile Product Lifecycle Management releases 9.2.2.x or 9.3.x with patch 12986698.
- If Agile is running on Oracle Application Server (OAS), apply the following patches depending on your version. These patches are not required if Agile is running on Weblogic Server (WLS).
  - Agile Product Lifecycle Management releases 9.2.2.6 with patch 10276383.
  - Agile Product Lifecycle Management releases 9.2.2.7 with patch 10276386.
  - Agile Product Lifecycle Management releases 9.3.1 with patch 10276397.

  Note: If you are using Agile 9.3.1 on Weblogic and if you are using an Oracle RAC database for the FMW server, the database driver in Agile must be a thin client driver, not an XA driver, which is the default when creating a new data source in Agile.

  For more information about deploying the Design to Release: Agile - EBS / PIM PIP extensions, see Deploying the Design to Release: Agile - EBS / PIM PIP Components on the Agile PLM Server.
- JD Edwards EnterpriseOne applications release 9.0.
- JD Edwards EnterpriseOne tools release 8.98.3.0 or higher.
- Additionally, install electronic software updates (ESUs), which you can find by locating searching on these part numbers on http://edelivery.oracle.com/:

– V22722-01

  This part number contains JD Edwards EnterpriseOne Tools 8.98.3.0 patch, which is required for the Design to Release: Agile PM - JDE E1.

– V22820-01

  This part number contains the Oracle Design to Release Integration Pack for Agile Product Lifecycle Management and JD Edwards EnterpriseOne 3.1 patches for JD Edwards EnterpriseOne 9.0. Intall the patches in the given order:

1. JL12014
2. JL13277
3. JL14875

3.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Design to Release: Agile - JDE E1 PIP. Enter the details of the Design to Release: Agile - JDE E1 PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

3.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 3–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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 _____

Table 3–1 (Cont.) PIP Server Details Screen Fields

Field	Description
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.

3.2.2 Agile Details Screen

Use this screen to enter details related to your Agile PLM instance.

The screen contains the following fields:

Table 3–2 Agile Details Screen Fields

Field	Description
Agile PLM Host	This value is typically the machine name. Example: `example1.corp.oracle.com`. Agile PLM Host name is _____ _____
Agile PLM Port	This is the http port. This value depends on the web server port and operating system of your Agile PLM instance. To find this value, contact your Agile PLM administrator. Example: `80`. Agile PLM Host is _____ _____
Agile PLM Virtual Path	This value is the same virtual path entered during the Agile PLM installation. Example: `Agile`. Agile PLM Virtual Path is _____ _____
Agile PLM Integration Username	This is the Agile PLM admin access username. Example: `admin`. Agile PLM Integration Username is _____ _____
Agile PLM Integration User Password	To find this value, contact your Agile PLM administrator. Agile PLM Integration User Password is ____ _____
Agile Version	This is a drop down list of Agile PLM Application Versions, which are: `9.2.2.x`, where 'x' can be either 6 or 7. `9.3.x`, where 'x' for this release is 1.

3.2.3 EnterpriseOne Business Services Information Screen

Use this screen to enter details related to your JD Edwards EnterpriseOne business services.

The screen contains the following fields:

Table 3–3 EnterpriseOne Business Services Information Screen Fields

Field	Description
Web Services Platform	This value is the web services platform that is used by EnterpriseOne. Valid platforms include Oracle WebLogic Server (WLS) and WebSphere Application Server (WAS). This value can be WLS or WAS. Example: `WLS` Web Services Platform is _____
Web Service Server URL	This value is the location of the EnterpriseOne business service URL. Example: `http://den60002jems.us.oracle.com:7831/DV900/orhttp://dnitsas2.mlab.jdedwards.com:94/DV900_WEB/services/` Web Service Server URL is _____
Environment	This is the environment that the integration proxy user accesses during sign on. To find this value, contact your administrator. Example: `DV900`. Environment is _____

3.3 Installing the Design to Release: Agile - JDE E1 PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

3.3.1 Install the Design to Release: Agile - JDE E1 PIP

To install the Design to Release: Agile - JDE E1 PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 3–4 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC HP-UX IBM AIX Based Systems	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

3.3.2 Configure the Design to Release: Agile - JDE E1 PIP

The screens that appear in the configuration wizard prompt you to enter the data that is required for successful configuration of the Design to Release: Agile - JDE E1 PIP. Keep the completed worksheets the Design to Release: Agile - JDE E1 PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Design to Release: Agile - JDE E1 PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the**Design to Release: Agile - JDE E1 PIP**
8. Click **Next**.

3.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

3.3.2.2 Specify EnterpriseOne Business Services Details

To specify EnterpriseOne Business Services details:

1. Enter information about your EnterpriseOne Business Services details in the **EnterpriseOne Business Services Information** screen.

   Note: The Web Services platform (WLS / WAS) needs to be selected before entering the Business Service related details.

2. Click **Next.**

3.3.2.3 Specify Agile PLM Application Details

To specify Agile PLM details:

1. Enter information about your Agile PLM installation in the **Agile Details** screen.
2. Click **Next.**

3.3.2.4 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 3.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

3.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

3.3.4 Deploying the Design to Release: Agile - JDE E1 PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

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 3–5 Deployment command for the Design to Release: Agile - JDE E1 PIP

Platform	Deployment Command
Linux Solaris SPARC HP-UX IBM AIX Based Systems	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1DP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<instancename>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1ConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1SupplementaryDP.xml -l <AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1DP.log`

Table 3–5 (Cont.) Deployment command for the Design to Release: Agile - JDE E1 PIP

Platform	Deployment Command
Microsoft Windows	`ant -f <AIA_ HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1DP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia instance>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_ HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1ConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1SupplementaryDP.xml -l <AIA_ HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1DP.log`

3. Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

3.4 Verifying Installation

To verify the Design to Release: Agile - JDE E1 PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX Based Systems: Review the install log located at <AIA_HOME>/aia_instances/<instance name>/logs or <AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1DP.log to verify that the PIP is successfully installed.

- For Microsoft Windows: Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs or <AIA_HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1DP.log to verify that the PIP is successfully installed.

2. Confirm that Design to Release: Agile PLM - JDE E1PIP queues were installed.
   a. Navigate to the PLM PIP **Queue Management** console: `http://<server name>:<port number>/queue.`
   b. Log in with the server admin user name. To find this information, contact the system administrator.
3. Verify that you can see the following Design to Release: Agile - JDE E1 services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- ACSAXMLJMSConsumer
- BillOfMaterialsInitialLoadExtractJDEE1Consumer
- ChangeStatusDBAdapter
- CreateEngineeringChangeOrderListJDEE1ProvABCSImpl
- CreateQueueControlService
- CreateQueueService
- EngineeringChangeOrderEBS
- EngineeringChangeOrderListExtractJDEE1Consumer
- EngineeringChangeOrderResponseEBS
- InitialLoadBillOfMaterialsListJDEE1toAgileImpl
- InitialLoadItemListJDEE1toAgileImpl
- ItemBalanceEBS
- ItemBalanceListExtractJDEE1Consumer
- ItemBalanceResponseEBS
- ItemEBSV2
- ItemInitialLoadExtractJDEE1Consumer
- ItemListExtractJDEE1Consumer
- ItemResponseEBSV2
- ProcessEngineeringChangeOrderAgileReqABCSImpl
- QueueProcessorService
- QueueProcessorServiceImpl
- UpdateEngineeringChangeOrderListAgileProvABCSImpl
- UpdateEngineeringChangeOrderListJDEE1ReqABCSImpl
- UpdateItemBalanceListAgileProvABCSImpl

- UpdateItemBalanceListJDEE1ReqABCSImpl
- UpdateItemListAgileProvABCSImpl
- UpdateItemListJDEE1ReqABCSImpl

  If you have selected Websphere Application Server (WAS) for your JD Edwards EnterpriseOne web services platform, also verify that these items appear.

- EngineeringChangeOrderManagerJDEE1WASConnector
- IntegrationTimeStampManagerJDEE1WASConnector

4. Confirm that the AIA Foundation Manager components were successfully installed.
   a. Navigate to the AIA Console URL: *http://<server name>:<port number>/AIA*.
   b. Log in with server admin user name.
   c. Navigate to **Setup**, **System** to access the **Application Registry** page.
   d. Check the rows for the following sets of values:

Table 3–6 Application Registry Page Values for Agile

Field	Value
Internal ID	AGILE_01
System Code	AGILE_01
System Description	Agile PLM Instance 01
IP Address	IP address of the Agile PLM system
URL	URL of the Agile PLM system
System Type	Agile
Application Type	PLM
Version	9.2.2.x(where x can be either 6 or 7) or 9.3.1

Table 3–7 Application Registry Page Values for JD Edwards

Field	Value
Internal ID	JDE Environment Name
System Code	JDEE1_01
System Description	JDEdwards EnterpriseOne Instance 01
IP Address	<IP of the JDE E1 instance>
URL	<JDE Web Service Server URL>
System Type	JDE
Application Type	ERP
Version	9.0

3.4.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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 3–8 Service Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Service Policy
CreateQueueServiceControl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CreateQueueService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorServiceImpl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
EngineeringChangeOrderManagerJDEE1WASConnector(WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
IntegrationTimeStampManagerJDEE1WASConnector(WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
InitialLoadItemListJDEE1toAgileImpl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
InitialLoadBillOfMaterialsListJDEE1toAgileImpl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 3–9 No Authentication Client Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Reference	Client Policy
InitialLoadItemListJDEE1toAgileImpl	InitialLoadItemListJDEE1toAgileImplV1Extension	oracle/no_authentication_client_policy
InitialLoadBillOfMaterialsListJDEE1toAgileImpl	InitialLoadBillOfMaterialsListJDEE1toAgileImplExtension	oracle/no_authentication_client_policy

Table 3–10 Saml Opt On Client Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Reference	Client Policy
QueueProcessorService	BPELSystem.default.QueueProcessorServiceImpl.QueueProcessorServiceImpl_1_0	oracle/aia_wss10_saml_token_client_policy_OPT_ON
QueueProcessorServiceImpl	ProcessEngineeringChangeOrderAgileReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
InitialLoadBillOfMaterialsListJDEE1toAgileImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
InitialLoadItemListJDEE1toAgileImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 3–11 Wss Username Token Client Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Reference	Client Policy
CreateEngineeringChangeOrderListJDEE1ProvABCSImpl	EngineeringChangeOrderManager	oracle/wss_username_token_client_policy
UpdateEngineeringChangeOrderListJDEE1ReqABCSImpl	TimeStampManager	oracle/wss_username_token_client_policy
UpdateItemBalanceListJDEE1ReqABCSImpl	TimeStampManager	oracle/wss_username_token_client_policy
UpdateItemListJDEE1ReqABCSImpl	TimeStampManager	oracle/wss_username_token_client_policy
EngineeringChangeOrderManagerJDEE1WASConnector (WAS Install Only)	EngineeringChangeOrderManager	oracle/wss_username_token_client_policy
IntegrationTimeStampManagerJDEE1WASConnector(WAS Install Only)	TimeStampManagerWAS	oracle/wss_username_token_client_policy
UpdateItemBalanceListAgileProvABCSImpl	ItemBalanceErrorEBS	oracle/wss_username_token_client_policy
UpdateItemListAgileProvABCSImpl	ItemErrorResponseEBSV2	oracle/wss_username_token_client_policy
CreateEngineeringChangeOrderListJDEE1ProvABCSImpl	EngineeringChangeOrderEBSErrorResponse	oracle/wss_username_token_client_policy
UpdateEngineeringChangeOrderListAgileProvABCSImpl	EngineeringChangeOrderErrorResponseEBS	oracle/wss_username_token_client_policy

Table 3–12 Wss Http Token Client Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Reference	Client Policy
UpdateEngineeringChangeOrderListAgileProvABCSImpl	ChangeABSService MergeABSService ChangeStatusService	oracle/wss_http_token_client_policy (AgileWebServiceKey)

Table 3–12 (Cont.) Wss Http Token Client Policy Attachments for Design to Release: Agile - JDE E1 PIP

Composite	Reference	Client Policy
ProcessEngineeringChangeOrderAgileReqABCSImpl	ChangeABSService	oracle/wss_http_token_client_policy (AgileWebServiceKey)
UpdateItemListAgileProvABCSImpl	ItemABSService	oracle/wss_http_token_client_policy (AgileWebServiceKey)
UpdateItemBalanceListAgileABCSImpl	ItemABSService	oracle/wss_http_token_client_policy (AgileWebServiceKey)

For more information about security validation, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Design to Release Integration Pack for Agile Product Lifecycle Management and JD Edwards EnterpriseOne 3.1 - Implementation Guide*.

3.5 Undeploying the Design to Release: Agile - JDE E1 PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 3–13 Undeployment command for the Design to Release: Agile - JDE E1 PIP

Platform	Undeployment Command
Linux Solaris SPARC HP-UX IBM AIX Based Systems	`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/AgileToJDEE1/DeploymentPlans/AgileToJDEE1UndeployDP.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1ConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1SupplementaryUndeployDP.xml -l <AIA_HOME>/pips/AgileToJDEE1/DeploymentPlans/AgileToJDEE1UndeployDP.log`

Table 3–13 (Cont.) Undeployment command for the Design to Release: Agile - JDE E1

Platform	Undeployment Command
Microsoft Windows	`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\AgileToJDEE1\DeploymentPlans\AgileToJDEE1UndeployDP.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1ConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1SupplementaryUndeployDP.xml -l <AIA_HOME>\pips\AgileToJDEE1\DeploymentPlans\AgileToJDEE1UndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

4

Installing the Design to Release: Agile PLM for Process - OPM PIP

This chapter discusses how to install the Design to Release: Agile PLM for Process - OPM PIP. This chapter includes the following sections:

- Section 4.1, "Software Requirements"
- Section 4.2, "Configuration Wizard Interview"
- Section 4.3, "Installing Design to Release: Agile PLM for Process - OPM PIP"
- Section 4.5, "Verifying Installation"
- Section 4.6, "Undeploying the Design to Release: Agile PLM for Process - OPM PIP"

4.1 Software Requirements

The Design to Release: Agile PLM for Process - OPM PIP:

- Agile Product Lifecycle Management for Process 6.0.0.3.0 with Hotfix 6.0.0.3.48.
- Agile Product Lifecycle Management for Process Extensibility Pack 2.4.1.
- Oracle E-Business Suite 12.1.2 with the following patches:
  - 9335882:R12.INV.B
  - 9583654:R12.INV.B
  - 9548336:R12.ITM.C
  - 8942177:R12.ITM.C
  - 9709508:R12.ITM.C
  - 9563603:R12.GMD.B
  - 9466716:R12.GMD.B
  - 9701617:R12.GMD.B
  - 9687801:R12.GMD.B
  - 9713855:R12.GMD.B

4.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Design to Release: Agile PLM for Process - OPM PIP. Enter the

details of the Design to Release: Agile PLM for Process - OPM PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

4.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 4–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

4.2.2 Agile PLM for Process Application Details

Use this screen to enter details related to your Agile PLM for Process instance.

The screen contains the following fields:

Table 4–2 Agile PLM for Process Application Details Screen Fields

Field	Description
Agile PLM for Process Host	This value is typically the machine name. Example: `example1.corp.oracle.com`. Agile PLM for Process Host name is _____ _____

Table 4–2 (Cont.) Agile PLM for Process Application Details Screen Fields

Field	Description
Agile PLM for Process Port	This is the http port. This value depends on the web server port and operating system of your Agile PLM for Process instance. To find this value, contact your Agile PLM for Process administrator. Example: `80`. Agile PLM for Process Port is _____ _____
Agile PLM for ProcessVirtual Path	This value is the same virtual path entered during the Agile PLM for Process installation. Example: `Integration/ProdikaContracts/CSS`. Agile PLM for ProcessVirtual Path is _____ _____

4.2.3 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 4–3 Oracle E-Business Suite Server Details Screen fields

Field	Description
E-Business Suite Version	This is a drop down list of Oracle E-Business Suite Application versions, which are: 11.5.10 12.1.x 12.1.x with PIM
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite fully qualified Host Name is _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____ _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____ _____

Table 4–3 (Cont.) Oracle E-Business Suite Server Details Screen fields

Field	Description
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `SID.server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is ___ _____. This field is not used in Design to Release: Agile - EBS/PIM PIP.

4.2.4 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 4–4 Oracle E-Business Suite Database Details Screen fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____
Database Schema	To find this value, contact the database administrator. Example: `apps`. Database Schema is _____ _____ All the database credentials are used for creating the connection pool URL (universal resource locator) and data source URLs.

4.3 Installing Design to Release: Agile PLM for Process - OPM PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

4.3.1 Install the Design to Release: Agile PLM for Process - OPM PIP

To install the Design to Release: Agile PLM for Process - OPM PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 4–5 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC HP-UX IBM AIX Based Systems	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	Double-click setup.exe

Installer launches the **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

4.3.2 Configure the Design to Release: Agile PLM for Process - OPM PIP

The screens that appear in the configuration wizard prompt you to enter the data that is required for successful configuration of the Design to Release: Agile PLM for

Process - OPM PIP. Keep the completed worksheets the Design to Release: Agile PLM for Process - OPM PIP screens ready before you launch the configuration wizard.

> **Note:** If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Design to Release: Agile PLM for Process - OPM PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the**Design to Release: Agile PLM for Process - OPM PIP**
8. Click **Next**.

4.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

4.3.2.2 Specify Agile PLM for Process Application Details

To specify Agile PLM for Process application details:

1. Enter information about your Agile PLM for Process installation in the **Agile PLM for Process Application Details** screen.
2. Click **Next.**

4.3.2.3 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your Oracle E-Business Suite Server installation in the **E-Business Suite Server Details** screen.
2. Click **Next**.

4.3.2.4 Oracle E-Business Suite Database Details Screen

To specify Oracle E-Business Suite Database details:

1. Enter information about your Oracle E-Business Suite Database installation in the **E-Business Suite Database Details** screen.
2. Click **Next**.

4.3.2.5 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 4.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

4.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

4.3.4 Deploying the Design to Release: Agile PLM for Process - OPM PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 4–6 Deployment commands for the Design to Release: Agile PLM for Process - OPM PIP

Platform	Deployment Command
Linux Solaris SPARC HP-UX IBM AIX Based Systems	ant -f /<AIA_ HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=/<AIA_ HOME>/pips/PLM4PEbizOPM/DeploymentPlans/PLM4PEbizOPMDP.xml -DPropertiesFile=/<AIA_HOME>/aia_instances/<AIA_Instance_ name>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=/<AIA_ HOME>/pips/PLM4PEbizOPM/DeploymentPlans/PLM4PEbizOPMSupplementaryDP.xml -l /<AIA_ HOME>/pips/PLM4PEbizOPM/DeploymentPlans/PLM4PEbizOPM.log
Microsoft Windows	ant -f \<AIA_ HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=\<AIA_ HOME>\pips\PLM4PEbizOPM\DeploymentPlans\PLM4PEbizOPMDP.xml -DPropertiesFile=\<AIA_HOME>\aia_instances\<AIA_Instance_ name>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=\<AIA_ HOME>\pips\PLM4PEbizOPM\DeploymentPlans\PLM4PEbizOPMSupplementaryDP.xml -l \<AIA_ HOME>\pips\PLM4PEbizOPM\DeploymentPlans\PLM4PEbizOPM.log

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as

composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

4.4 Performing Post-Installation Configurations

Agile PLM for Process applies HTTP basic authentication to handle AIA syndication result messages by an Agile PLM for Process host account. You need to add the Agile PLM for Process credential to Fusion Middleware for the HTTP basic authentication connection.

To configure credential:

1. Login to EM Console.
2. Navigate to **WebLogic Domain**, **soa_domain**, **Securities**, **Credentials**.
3. Check whether the Map with name `oracle.wsm.security` exists in `Credentials`.

   If it does not exist, create a Map with name `oracle.wsm.security`.
4. Create a key in `oracle.wsm.security` map with name `PLM4P_CSSServices_BasicHttpBinding_ICSSServices`. Select the type as `password` and enter the Agile PLM for Process host username and password.
5. Click **OK**.

4.5 Verifying Installation

To verify the Design to Release: Agile PLM for Process - OPM PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 Design to Release: Agile PLM for Process - OPM PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- ItemEBSV2
- ItemResponseEBSV2
- ProductionRecipeEBS
- ProductionRecipeResponseEBS
- QueryResponsibilityEbizAdapter
- SyncItemListEbizAdapter
- SyncItemListEbizProvABCSImpl
- SyncProductionRecipeListEbizProvABCSImpl
- SyncRecipeListEbizAdapter
- SyncSpecPLM4PAdapter
- SyncSpecPLM4PReqABCSImpl
- TransformAppContextEbizService

4.5.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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 4–7 Service Policy Attachments for Design to Release: Agile PLM for Process – EBS OPM PIP

Composite	Service Policy
SyncSpecPLM4PAdapter	oracle/wss_http_token_service_policy

Table 4–8 HTTP Token Client Policy Attachments for Design to Release: Agile PLM for Process – EBS OPM PIP

Composite	Reference	Client Policy
SyncSpecPLM4PAdapter	PLM4PSyncResponse	oracle/wss_http_token_client_policy
SyncItemListEbizProvABCSImpl	ItemResponseErrorEBS	oracle/wss_username_token_client_policy
SyncProductionRecipeListEbizProvABCSImpl	ProductionRecipeResponseErrorEBS	oracle/wss_username_token_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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Design to Release Integration Pack for Agile Product Lifecycle Management for Process and Oracle Process Manufacturing 3.1 - Implementation Guide*.

4.6 Undeploying the Design to Release: Agile PLM for Process - OPM PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 4–9 Undeployment command for the Design to Release: Agile PLM for Process - OPM PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/PLM4PEbizOPM/DeploymentPlans/PLM4PEbizOPMUndeployDP.xml -l <AIA_HOME>/pips/PLM4PEbizOPM/DeploymentPlans/PLM4PEbizOPMUndeployDP.log`

Table 4–9 (Cont.) Undeployment command for the Design to Release: Agile PLM for Process - OPM PIP

Platform	Undeployment Command
Microsoft Windows	`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\PLM4PEbizOPM\DeploymentPlans\PLM4PEbizOPMUndeployDP.xml -l <AIA_HOME>\pips\PLM4PEbizOPM\DeploymentPlans\PLM4PEbizOPMUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

5

Installing the Order to Cash: Siebel CRM - EBS PIP

This chapter discusses how to install the Order to Cash: Siebel CRM - EBS PIP. This chapter includes the following sections:

- Section 5.1, "Software Requirements"
- Section 5.2, "Configuring Oracle Data Integrator (Optional)"
- Section 5.3, "Configuration Wizard Interview"
- Section 5.4, "Installing the Order to Cash: Siebel CRM - EBS PIP"
- Section 5.5, "Performing Post-Installation Configurations"
- Section 5.6, "Verifying Installation"
- Section 5.7, "Undeploying the Order to Cash: Siebel CRM - EBS PIP"

5.1 Software Requirements

The Order to Cash: Siebel CRM - EBS PIP requires:

- Siebel SIA CRM version:
  - 8.0.0.10 (FP patch 10016428) with ACR 508
  - 8.0.0.11 (FP patch 11865300) with ACR 508
  - 8.0.0.12 with ACR 508
  - 8.1.1.4 (FP patch 10428101) with ACR 474 or 508
  - 8.1.1.5 (FP patch 12545956) with ACR 474 or 508
- Oracle E-Business Suite versions 11.5.10.2, 12.1.1, 12.1.2 or 12.1.3

  For more information on the seed data patches you must apply for each version of Oracle E-Business Suite, see Table 5–1 or Table 5–2.
- Oracle Transportation Management 5.5 CU5.

  This participating application is required if you plan to use the Shipping Charges integration flow that fetches shipping charges from Oracle Transportation Management.
- Oracle Data Integrator 11g Release 1 (11.1.1.3).

  For more information on the patches you must apply, see Table 5–3.

Table 5–1 Seed Data Patches for Oracle E-Business Suite R12.1.1 or 12.1.2 or 12.1.3

Product	My Oracle Support Patch Number	Description
Advanced Product Catalog	8313714:R12.EGO.C	FP - CREATE LOAD EVENT AND SCRIPTS TO GENERATE LOAD EVENT FOR EGO ITEM
TCA (Customer)	8253604:R12.HZ.B	AIA: HZ_AIA_CUSTOM_PKG RAISES UNHANDLED EXP DUE TO QUERY MISSING ORG STRIPE
Install Base/ALM/Asset	7156553:R12.CSI.B	FP11.5.10-12.1 O2C2: EVENT GETTING RAISED FOR NON-CUSTOMER ITEM INSTANCE DURING
BOM (Bill of Materials)	8305535:R12.BOM.C	BUSINESS EVENT NOT RAISED WHILE CREATING CONFIGURATION ITEMS
Order Management	8459502:R12.ONT.B	A mandatory prerequisite. All customers should apply it before using Order to Cash: Siebel CRM - EBS PIP 2.4 on E-Business Suite release 12.1.
Order Management	9210633:R12.ONT.B	This is Oracle Order Management Roll-Up # 2 patch for AIA/O2C 2.5 PIP (on R12.1 code line)
Order Management	9924161:R12.ONT.B	oe_inbound_int.process_order should not "commit" if p_ action_commit =false
Order Management	10171747:R12.ONT.B	Sales order lines being removed from ship set they were a part of, during UPDATE operation.
Order Management	10009062:R12.ONT.B	Outbound Event containing an incorrect value for order header level attribute: "orig_sys_document_ref" on sales order cancellation.
Order Management	9874630:R12.ONT.B	This patch solves problems occurring in submitting order changes through Oe_Inbound_Int.Process_Order_25(...) over a booked order, when such changes contain ship/arrival set related updates.
Shipping Execution	8590113:R12.WSH.B	Shipping api to provide all delivery detail attribute values for a sales order or a sales order line.
Trading Community	8745333:R12.HZ.B	CONTACT UPDATE USING HZ_AIA_CUSTOM_ PKG.SYNC_ACCT_ORDER DOESN'T WORK W/O ADDRESS

Table 5–2 Seed Data Patches for Oracle E-Business Suite 11.5.10.2

Product	My Oracle Support Patch Number	Description
ATP	4639052	11.5.10 ATP ROLLUP #7 PATCH
ATP	7170316	ATP PATCH TO SUPPORT ATP THROUGH BPEL PROCESS (O2C2)
Advanced Product Catalog	8263652	CREATE LOAD EVENT AND SCRIPTS TO GENERATE LOAD EVENT FOR EGO ITEM
BOM	7034701	Configuration items do not get synced to Siebel.
Application Install	6502082	AD.I.6
Configurator	6468610	Build 25.42
Customer	3618299	Patch 11i.HZ.N
Customer	4280097	HZ.N ONEOFF: CHANGES TO DSS TO ADD RESTRICTION OPTION FOR PARTY MERGE ON SUBMISSION
Customer	5046954	BACKPORT INTEGRATION SERVICES TO 11i
Customer	6434556	HZ.N ONEOFF: ORDER 2 CASH PHASE 2 CDH CHANGES
Install Base/ALM/Asset	7159524	O2C2 IB CONSOLIDATE PATCH
Install Base/ALM/Asset	7682665	CREATE ASSET EVENTS ARE NOT RAISED
Install Base/ALM/Asset	7699277	ATO ITEM INSTANCES - CREATE & UPDATE EVENTS ARE NEEDED FOR HIERARCHY CREATION

Table 5–2 (Cont.) Seed Data Patches for Oracle E-Business Suite 11.5.10.2

Product	My Oracle Support Patch Number	Description
Install Base/ALM/Asset	7239642	EVENTS NOT RAISED FOR STATUS UPDATE OF CHILD COMPONENTS IN PTO MODEL
Install Base/ALM/Asset	7313962	ORIGINAL_COST IN THE VIEW CSI_ASSET_ INTEGRATION_V IS DIFFERENT IF MANUAL OVERRID
Install Base/ALM/Asset	5310177	OKS 11.5.10 ROLLUP PATCH 4
Install Base/ALM/Asset	9436131	CSI: item instance party relationship>owner update fires create event and not update
Order Management	4665900	This is the OM Prerequisite Patch (OMPRP) for 11.5.10 customers. This includes multiple critical and recommended OM code fixes as of Oct 2005. This patch is highly recommended for all 11i10 Order Management customers.
Order Management	8526377	Order Management OM R11I10 RUP FOR Order to Cash: Siebel CRM - EBS PIP 2.5
Order Management	9242739	eBS/OM consolidation patch for O2C2.5 RUP #2
Order Management	10182986	This patch enhances the behavior of Oe_Inbound_ Int.Process_Order(...) to issue a database commit, conditionally.
PaymentAuth	6846210	O2C2: 11I.10CU2 WRAPPER FOR APPS.IBY_PAYMENT_ ADAPTER_PUB.ORAPMTREQ REQUESTED
Projects Suite (pj_pf)	3074777	FAMILY PACK 11i.PJ_PF.L
Product Workbench (dna)	4301876	DNA ADSPLICE CHECKIN
PLM	4203793	Patchset 11i.PLM_PF.E
PLM	7037537	11I.PLM_PF.E: CUMULATIVE ROLLUP PATCH E14
Price Lists	6831380	New View CRMINTEG_PRICELIST_V must be created for Order to Cash Phase II AIA Integration
Shipping Execution	8932422	Shipping API to provide the delivery detail attributes for order or line
Trading Community	7171816	BO API: GET_ORG_CUSTS_UPDATED RETURNS PL/SQL NUMERIC OR VALUE ERROR
Trading Community	8769578	FOR BACKPORTING FIX OF 8745333 TO 11I

Table 5–3 ODI 11g Release (11.1.1.3) Patches

Product	My Oracle Support Patch Number	Description
Oracle Data Integrator	9814235	Oracle Data Integrator: Patch NOSUCHMETHODERROR DURING ODI_SERVER1 STARTUP **Note:** This patch is required for compatibility with Oracle SOA Suite 11*g* Release 1 (11.1.1.4) PS3.
Oracle Data Integrator	10172307	Oracle Data Integrator: Patch ODIINVOKEWEBSERVICE UNABLE TO INVOKE WEBSERVICES WITH USER AUTHENTICATION. **Note:** This patch helps ODI invoke secured web services using HTTP Basic Authentication.

5.2 Configuring Oracle Data Integrator (Optional)

To run AIA Installer you must have Oracle Data Integrator (ODI) access with Supervisor privileges.

ODI is used by the O2C PIP for the initial load flows. You can skip this section if you do not plan to run the initial load flows. If you intend to run the ODI based initial loads, review the details in this section and perform tasks accordingly.

For installation purposes, the ODI software must reside at the same server where Foundation Pack is installed. Once the PIP installation is complete, the ODI software can be installed onto another server (if desired) connecting to the master and work repositories used during the PIP installation.

5.2.1 Creating Oracle Data Integrator Repositories

You can use an existing master repository as long as it exists on an Oracle database and its ID is not 0. If the ID is 0, AIA advises you to create a new master repository.

You can use an existing work repository as long as it exists on an Oracle database and its ID is not 778. If the ID is 778, AIA advises you to create a new repository and not to use 778 as the Work Repository ID.

when you run the configuration wizard, it inserts or updates the ODI artifacts into these repositories.

AIA recommends that you make a backup copy of master and work repositories before you start the installation process.

For information about creating Oracle Data Integrator Master and Work repositories, see the *Oracle® Fusion Middleware Developer's Guide for Oracle Data Integrator 11g Release 1*, "Administering the Oracle Data Integrator Repositories."

5.3 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Order to Cash: Siebel CRM - EBS PIP. Enter the details of the Order to Cash: Siebel CRM - EBS PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

5.3.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 5–4 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____

Table 5–4 (Cont.) PIP Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin username. 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 with 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.

5.3.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 5–5 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is _____
E-Business Suite Version	This is the version of the E-Business Suite Application. Valid values for the Order to Cash: Siebel CRM - EBS PIP are 11.5.10.2, 12.1.1 and 12.1.2. Other versions are not supported in this release.

5.3.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance. The screen contains the following fields:

Table 5–6 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `APPS`. **Note:** Ensure that the database username is entered with the correct case. Else the ODI based intial loads may result in errors. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL (universal resource locator) and data source URLs.

5.3.4 Oracle Transportation Management (OTM) Server Details Screen (Optional)

Use this screen to enter details related to your OTM server instance. If the Shipping Charges flow of the Order to Cash: Siebel CRM - EBS PIP to Cash PIP is not being used, these details are optional. The screen contains the following fields.

OTM System Name and **OTM System Version** fields are optional.

Table 5–7 Oracle Transportation Management (OTM) Server Details Screen Fields

Field	Description
OTM Host Name	This value is the fully qualified machine name of the OTM application. Example: `example1.corp.oracle.com` OTM Host Name is _____ _____

Table 5–7 (Cont.) Oracle Transportation Management (OTM) Server Details Screen

Field	Description
OTM HTTP Port	This value is the OTM port. To find this value, contact your administrator. Example: `8024` OTM HTTP Port is _____
OTM User Name	To find this value, contact your administrator. OTM User Name is _____
OTM Password	To find this value, contact your administrator. OTM Password is _____
OTM System Name	To find this value contact your administrator. OTM System Name is _____
OTM System Version	To find this value contact your administrator. OTM System Version is _____

5.3.5 Oracle Transportation Management (OTM) Database Details Screen (Optional)

Use this screen to enter details related to your OTM database instance. The screen contains the following fields:

Table 5–8 Oracle Transportation Management (OTM) Database Details Screen Fields (Optional)

Field	Description
OTM Database Host	This value is the fully qualified machine name of the OTM database. Example: `example1.corp.oracle.com` OTM Host Name is _____
OTM Database Port	This value is the OTM database port. To find this value, contact your database administrator. Example: `8024` OTM HTTP Port is _____
OTM Database User Name	To find this value, contact your database administrator. OTM User Name is _____
OTM Database Password	To find this value, contact your database administrator. OTM Password is _____
OTM Database SID	This value is OTM Database System ID. To find this value contact your database administrator. OTM Database SID is _____

5.3.6 Siebel CRM Server Details Screen

Use this screen to enter details related to your Siebel CRM server instance. The screen contains the following fields:

Table 5–9 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Hostname	This value is the fully qualified machine name of the Siebel CRM application. Example: `example1.corp.oracle.com`. Siebel Hostname is _____
Siebel HTTP Port	This is the value of the Siebel CRM application port. To find this value, contact your administrator. Example: `8024`. **Note:** Please enter `80` as the port number, if the default port is used. Siebel HTTP Port is _____.
Siebel 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 EAI Application User is _____
Siebel EAI Application Password	To find this value, contact the database administrator. Siebel EAI Application Password is _____
Siebel Enterprise Server Name	To find this value, contact the database administrator. Siebel Enterprise Server Name is _____
Siebel Version	This is the version of the Siebel CRM application. Valid value for Order to Cash: Siebel CRM - EBS PIP is 8.0.0.8 and 8.1.1.3. Other versions are not supported for this release.

5.3.7 Siebel CRM Database Details Screen

Use this screen to enter details related to your Siebel CRM database instance. The screen contains the following fields:

Table 5–10 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com` Siebel Database Host is _____

Table 5–10 (Cont.) Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Port	To find this value, contact the database administrator. Example: `1521` Siebel Database Port is _____ _____
Siebel Database Username	Specifies a database user that has access to loading the EIM tables Siebel. To find this value, contact the database administrator. Example: `ORA12345` **Note:** Ensure that the database username is entered with the correct case. Else the ODI based intial loads may result in errors. Siebel Database Username is _____ _____
Siebel Database Password	To find this value, contact your administrator. Siebel Database Password is _____ _____
Siebel Database SID	To find this value, contact the database administrator. Example: `orcl` Siebel Database SID is _____ _____

5.3.8 Oracle Data Integrator Access Details Screens (Optional)

Oracle Data Integration Access Information is captured in three screens. Use these screens to enter details to access Oracle Data Integrator. The screens contain the following fields:

The ODI screens are optional and they help you capture the ODI details and are only required you intend to run the ODI based Initial Data Loads for the PIP. See *Siebel CRM Integration Pack for Oracle Order Management: Order to Cash 3.1 - Implementation Guide*for details on how to deploy and execute these Initial Loads.

Table 5–11 Oracle Data Integrator Access Details Screen Fields

Field	Description
Path to Oracle Data Integrator	This value is the fully qualified path to the ODI HOME, including the agent folder in the oracledi directory. The default is the environment variable ODI_HOME. Linux example: `/slot/ems1203/oracle/ODI11113/oracledi/agent`. Path to ODI is _____ _ **Note:** The existence of the ODI software is validated by checking whether odiparams.sh (or .bat) exists in the ODI_HOME/agent/bin directory.
ODI User	Enter the user name to access ODI. Example: `SUPERVISOR`. ODI user is _____

Table 5–11 (Cont.) Oracle Data Integrator Access Details Screen Fields

Field	Description
ODI Password	Enter the password to access ODI. Example: `SUNOPSIS`. ODI password is _____
Path for exported DVMs	Enter the path to the directory to export domain value mappings (DVMs). Example: `$AIA_HOME/abc` One of the steps for setting up the PIP is to export some DVMs to a location. The installer needs to know this location in order to configure ODI artifacts during the install. It is recommended to choose this location in the same server where ODI software will run. Path for Exported DVMs is _____

5.3.9 Oracle Data Integrator Master Repository Details Screen (Optional)

Use this screen to enter details to access the Oracle Data Integrator master repository. The screen contains the following fields:

Table 5–12 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host Name	To find this value, contact your database administrator. Example: `server1.oracle.com` ODI Master Repository Database Host Name is _____
Database Port Number	To find this value, contact your database administrator. Example: `1606` ODI Master Repository Database Port Number is_____
Database Username	To find this value, contact your database administrator. Example: `snpm` ODI Master Repository Database Username is _____
Database Password	To find this value, contact your database administrator. Example: `snpm` ODI Master Repository Database Password is _____
Database SID	To find this value, contact your database administrator. Example: `orcl` ODI Master Repository Database SID is _____

5.3.10 Oracle Data Integrator Work Repository Details for Order to Cash Screen (Optional)

The install process imports the Order to Cash: Siebel CRM - EBS PIP ODI artifacts into an ODI work repository. You can provide an existing ODI work repository or provide an empty one. It is recommended to use an empty repository.

Use this screen to enter details related to the ODI work repository. The screen contains the following fields:

Table 5–13 Oracle Data Integrator Work Repository Details for Order to Cash: Siebel CRM - EBS PIP Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI work repository for Order to Cash: Siebel CRM - EBS PIP artifacts. Example: `OrderToCash` ODI Work Repository Name is: _____
ODI Work Repository ID	Enter the ID number that you used for the ODI work repository. It should be between 1 and 899. Example: `42` Do not use 900. Also do not use the ID already used for other work repositories. ODI Work Repository ID is: _____

5.3.11 Session Pool Manager Screen (Optional)

This PIP uses the Session Pool Manager utility to interact with Siebel web services. If the AIA server must invoke Siebel web services through a proxy server, please 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.

The screen contains the following fields:

Table 5–14 Session Pool Manager Screen Fields

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

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

5.4 Installing the Order to Cash: Siebel CRM - EBS PIP

This section discusses the PIP installation process. There are three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

5.4.1 Install the Order to Cash: Siebel CRM - EBS PIP

To install the Order to Cash: Siebel CRM - EBS PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 5–15 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify whether PIPManifest.xml file exists under <AIA_HOME>/pips.

5.4.2 Configure the Order to Cash: Siebel CRM - EBS PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Order to Cash: Siebel CRM - EBS PIP. Keep the completed worksheets of the Order to Cash: Siebel CRM - EBS PIP screens ready before you launch the configuration wizard.

By default OTM is not defined as a participating application for the Order to Cash: Siebel CRM - EBS PIP in the configuration wizard. If you intend to use the Shipping Charges flow of the Order to Cash: Siebel CRM - EBS PIP, define OTM as participating application.

Define OTM as a participating application for configuration wizard (Optional)

To define OTM as participating application:

1. Open <AIA_HOME>/pips/PIPManifest.xml.
2. Find the PIP **OrderToCash**, and in the participating application section for this PIP, uncomment the entry for OTM.

> **Note:** If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Order to Cash: Siebel CRM - EBS PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure installation environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next**.
7. Select the **Order to Cash: Siebel CRM - EBS PIP**.
8. If you intend to configure the ODI details for Order to Cash Initial Loads, also select the **Order to Cash: Siebel CRM - EBS Initial Loads PIP**.
9. Click **Next**.

5.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

5.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite server details:

1. Enter your Oracle E-Business Suite Server information in the **E-Business Suite Server Details** screen.
2. Click **Next.**

5.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite database details:

1. Enter your Oracle E-Business Suite Database connection information in the **E-Business Suite Database Details** screen.

2. Click **Next.**

5.4.2.4 Specify Oracle Transportation Management Server Details (Optional)

> **Note:** The OTN screens appear only if you have uncommented OTN as participating application in PIPManifest.xml.

To specify details of the Oracle Transportation Management (OTM) Server:

1. Enter your OTM Server information in the **Oracle Transportation Management (OTM) Server** Details screen.
2. Click **Next.**

5.4.2.5 Oracle Transportation Management (OTM) Database Details Screen (Optional)

To specify details of the Oracle Transportation Management (OTM) Database:

1. Enter your OTM Server information in the **Oracle Transportation Management (OTM) Database** Details screen.
2. Click **Next.**

5.4.2.6 Specify Siebel CRM Server Details

To specify Siebel CRM server details:

1. Enter your Siebel CRM connection information in the **Application Details - Siebel CRM** screen
2. Click **Next.**

5.4.2.7 Specify Siebel CRM Database Details

To specify Siebel CRM database details:

1. Enter your Siebel CRM Database connection information in the **Siebel CRM Database Details** screen.
2. Click **Next.**

5.4.2.8 Specify Oracle Data Integrator Access Details (Optional)

> **Note:** The ODI screens appear if you have selected the **Order to Cash: Siebel CRM - EBS Initial Loads PIP**.

To specify Oracle Data Integrator access details:

1. Enter information about your Oracle Data Integrator access installation in the **Oracle Data Integrator Access Information** screens.

   Oracle Data Integration access information is captured in three screens. Enter the following information in the screens.
2. Specify the **ODI Home**.
3. Click **Next.**

4. Enter **ODI User** and **ODI Password**.
5. Click **Next.**
6. Specify the **Path for exported DVMs**.
7. Click **Next.**

5.4.2.9 Specify Oracle Data Integrator Master Repository Details (Optional)

To specify Oracle Data Integrator master repository details:

1. Enter information about your Oracle Data Integrator master repository installation in the **Oracle Data Integrator Master Repository** screen.
2. Click **Next.**

5.4.2.10 Specify Oracle Data Integrator Work Repository Details for Order to Cash (Optional)

To specify Oracle Data Integrator Work Repository Details for Order to Cash:

1. Enter information about your Oracle Data Integrator work repository installation in the **Oracle Data Integrator Work Repository Details for Order to Cash** screen.
2. Click **Next.**

5.4.2.11 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information related to your Session Pool Manager installation in the **Session Pool Manager Details** screen.
2. Click **Next.**

5.4.2.12 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 5.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

   ---

2. Click **Configure** to accept the configuration.

   The system displays progress of 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 diplayed in **Configuration Progress** screen.

3. When configuration process finishes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

5.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

5.4.4 Deploying the Order to Cash: Siebel CRM - EBS PIP

To deploy the PIP to Fusion Middleware server, run the command specific to your platform:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 5–16 Deployment commands for the Order to Cash: Siebel CRM - EBS PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/OrderToCash/DeploymentPlans/OrderToCashDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/OrderToCash/DeploymentPlans/OrderToCashSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/OrderToCash/DeploymentPlans/OrderToCashConditionalPolicy.xml -l <AIA_HOME>/pips/OrderToCash/DeploymentPlans/OrderToCash.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\OrderToCash\DeploymentPlans\OrderToCashDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\OrderToCash\DeploymentPlans\OrderToCashSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\OrderToCash\DeploymentPlans\OrderToCashConditionalPolicy.xml -l <AIA_HOME>\pips\OrderToCash\DeploymentPlans\OrderToCashDP.log`

3. Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these

supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

5.5 Performing Post-Installation Configurations

Perform the following tasks as part of post-installation configurations for the Order to Cash: Siebel CRM - EBS PIP.

5.5.1 Setting up Order to Cash PIP

As part of this PIP implementation, review and perform a few application and PIP related configurations as described in *Siebel CRM Integration Pack for Oracle Order Management: Order to Cash 3.1 - Implementation Guide* "Implementing the Order to Cash: Siebel CRM – EBS Process Integration Pack".

5.5.2 Configuring Session Pool Manager

This PIP 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, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" .

5.6 Verifying Installation

To verify the Order to Cash: Siebel CRM - EBS PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux x86, Solaris SPARC (64-bit), HP-UX 11i (64 bit) and IBM AIX Based Systems (64-bit): Review the install log located at <AIA_HOME>/aia_instances/<instance name>/logs to verify whether the PIP is successfully installed.
   - For Microsoft Windows (32-bit): Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs to verify whether the PIP is successfully installed.
2. Confirm that the Order to Cash: Siebel CRM - EBS PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.
   - AIASessionPoolManager
   - BulkLoadProductEbizReqABCSImpl
   - CalculateShippingChargeSalesOrderSiebelReqABCSImpl
   - CheckATPSalesOrderSiebelReqABCSImpl
   - ConfiguratorCopyConfigEbizAdapter

- ConfiguratorUserLangSiebelAdapter
- CreateAssetSiebelProvABCSImpl
- CreateItemEbizEventConsumer
- CreateItemInstanceEbizEventConsumer
- CreateItemInstanceEbizReqABCSImpl
- CreateProductEbizReqABCSImpl
- CreateSalesOrderEbizProvABCSImpl
- CreditCheckSalesOrderSiebelReqABCSImpl
- CustomerPartyEBSV2
- CustomerPartyOrchestrationEBSV2
- CustomerPartyOrchestrationResponseEBSV2
- CustomerPartyResponseEBSV2
- ExplodeItemCompositionEbizAdapter
- FetchATPScheduleSequenceEbizAdapter
- GetItemValidationOrganizationEbizAdapter
- GetItemValidationOrganizationOUEbizAdapter
- GetOperatingUnitIVOrgEbizAdapter
- GetSalesOrderEbizAdapter
- GetSalesOrderLineShippingDetailsEbizAdapter
- InstalledProductEBSV2
- InterfaceCustomerToFulfillmentEBF
- InterfaceSalesOrderToCustomerEBFV2
- InterfaceSalesOrderToFulfillmentEBF
- InterfaceSyncProductStructureEBF
- ItemCompositionEBS
- ItemCompositionOrchestrationEBS
- ItemCompositionResponseEBS
- ItemEBSV2
- MergeAccountEbizEventConsumer
- MergeAccountEbizReqABCSImpl
- MergePartyEbizEventConsumer
- MergePartyEbizReqABCSImpl
- PaymentAuthorizationSalesOrderSiebelReqABCSImpl
- ProcessCreditChargeAuthorizationEbizAdapter
- ProcessCreditChargeAuthorizationEbizProvABCSImpl
- ProcessCreditEligibilityEbizAdapter
- ProcessCreditEligibilityEbizProvABCSImpl

- ProcessQuoteSiebelJMSConsumer (applicable only for Siebel 8.0.x)
- ProcessQuoteSiebelJMSProducer (applicable only for Siebel 8.0.x)
- ProcessQuoteSiebelReqABCSImpl
- ProcessQuoteSoapMsgSiebelJMSConsumer (applicable only for Siebel 8.1.x)
- ProcessSalesOrderATPCheckEbizAdapter
- ProcessSalesOrderATPCheckEbizProvABCSImpl
- ProcessSalesOrderEbizAdapter
- ProcessSalesOrderShippingChargeLogisticsProvABCSImpl
- ProcessSalesOrderSiebelJMSConsumerV2 (applicable only for Siebel 8.0.x)
- ProcessSalesOrderSiebelJMSProducerV2 (applicable only for Siebel 8.0.x)
- ProcessSalesOrderSiebelReqABCSImplV2
- ProcessSalesOrderSoapMsgSiebelJMSConsumer (applicable only for Siebel 8.1.x)
- QueryCustomerPartyEbizAdapter
- QueryCustomerPartyListEbizCreateAdapter
- QueryCustomerPartyListEbizUpdateAdapter
- QueryCustomerPartyListSiebelProvABCSImplV2
- QueryItemCompositionEbizAdapter
- QueryItemCompositionListEbizProvABCSImpl
- QueryItemInstanceEbizAdapter (applicable only for E-Business Suite 11.x)
- QueryItemInstanceEbizR12VersionAdapter (applicable only for E-Business Suite 12.x)
- QueryMergeAccountEbizAdapter
- QueryMergeOrgCustEbizAdapter
- QueryPartyMergeEbizAdapter
- QueryRelatedOrgCustEbizAdapter
- QueryResponsibilityEbizAdapter
- QuerySimpleItemAdapter
- QuerySimpleItemBulkLoadAdapter
- QuerySimpleItemUpdateAdapter
- QueryStructureItemCompositionEbizAdapter
- ReceivedPaymentEBS
- RequestProductStructureSiebelJMSConsumer
- RequestProductStructureSiebelJMSProducer
- RequestProductStructureSiebelReqABCSImpl
- SalesOrderEBSV2
- SalesOrderOrchestrationEBSV2
- SalesOrderOrchestrationResponseEBSV2

- SalesOrderResponseEBSV2
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncContactSiebelReqABCSImpl
- SyncContSiebelAggrEventConsumer
- SyncCustomerPartyListEbizAdapter
- SyncCustomerPartyListEbizEventConsumer
- SyncCustomerPartyListEbizProvABCSImpl
- SyncCustomerPartyListEbizReqABCSImpl
- SyncCustomerPartyListPersonEbizAdapter
- SyncCustomerPartyListSiebelProvABCSImpl
- SyncCustomerSiebelEventAggregator
- SyncItemCompositionListSiebelProvABCSImpl
- SyncProductSiebelProvABCSImpl
- SyncSalesOrderEbizProvABCSImpl
- TransformAppContextEbizService
- TransformAppContextLogisticsService
- TransformAppContextSiebelService
- UpdateAssetSiebelProvABCSImpl
- UpdateItemEbizEventConsumer
- UpdateItemInstanceEbizEventConsumer
- UpdateItemInstanceEbizReqABCSImpl
- UpdateProductEbizReqABCSImpl
- UpdateSalesOrderEbizEventConsumer
- UpdateSalesOrderEbizReqABCSImpl
- UpdateSalesOrderSiebelProvABCSImpl

3. Verify whether Session Pool Manager is successfully installed and ensure that the Siebel server is active.
   a. Login to the EM Console: http://<server name>:<port number>/em/
   b. Navigate to **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1), default** and click **AIASessionPoolManager** on the left panel.
   c. Click the **Test** button.
   d. Enter **Operation** = `Start`.

e. Under the collapsible section titled **Security**, select the WSS Username Token bullet point and enter the WLS admin username and password.

f. Enter **Input Argumemt Host Id =** `SEBL_01`.

g. Click the **Test Web Service** button.

You should see a successful initialization response message. Refer to the *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" for details and troubleshooting.

5.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

1. Login to EM Console
2. Navigate to **WebLogic Domain**, **soa_domain**, **Web Services**, **Policies**.
3. Verify **Service Policy** attachment.
   a. Select **Security** from the **Category** list and **Service Clients** from the **Applies To** list, and click the **Search / Arrow** button.
   b. Find the service policy in the list of policies.
   c. Click the number in **Attachment Count** column.

      This opens **Usage Analysis** screen.
   d. Change the **Subject Type** list box to `SOA Service`.
   e. Validate that all the composites are listed with local attachment to this service policy.
4. Verify **Client Policy** attachment
   a. Navigate back to **Policies** screen.
   b. Select `Security` from the **Category** list and `Service Endpoints` from the **Applies To** list, and click the **Search / Arrow** button to refresh the list of policies.
   c. Find the client policy in the list of policies
   d. Click the number in **Attachment Count** column.

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

Table 5–17 Service Policy Attachments for Order to Cash: Siebel CRM - EBS PIP

Composite	Service Policy
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
TransformAppContextSiebelService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 5–17 (Cont.) Service Policy Attachments for Order to Cash: Siebel CRM - EBS PIP

Composite	Service Policy
TransformAppContextEbizService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
TransformAppContextLogisticsService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 5–18 No Authentication Service Policy Attachments for Order to Cash: Siebel CRM - EBS PIP

Composite	Service Policy
RequestProductStructureSiebelJMSProducer	oracle/no_authentication_service_policy
ConfiguratorUserLangSiebelAdapter	oracle/no_authentication_service_policy
PaymentAuthorizationSalesOrderSiebelReqABCSImpl	oracle/no_authentication_service_policy
CreditCheckSalesOrderSiebelReqABCSImpl	oracle/no_authentication_service_policy
CalculateShippingChargeSalesOrderSiebelReqABCSImpl	oracle/no_authentication_service_policy
ProcessSalesOrderSiebelJMSProducerV2 (only applicable for Siebel 8.0.x)	oracle/no_authentication_service_policy
ProcessQuoteSiebelJMSProducer (only applicable for Siebel 8.0.x)	oracle/no_authentication_service_policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy
CheckATPSalesOrderSiebelReqABCSImpl	oracle/no_authentication_service_policy

Table 5–19 Saml Opt On Client Policy Order to Cash: Siebel CRM - EBS PIP

Composite	Reference	Client Policy
SyncCustomerSiebelEventAggregator	SyncContactSiebelAggregatorAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncCustomerSiebelEventAggregator	SyncAddressSiebelAggregatorAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncCustomerSiebelEventAggregator	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncCustomerSiebelEventAggregator	SyncBPSiebelAggregatorAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncCustomerSiebelEventAggregator	SyncAccountSiebelAggregatorAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextSiebelService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextLogisticsService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	QueryRespEbizAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 5–20 No Authentication Client Policy for Order to Cash: Siebel CRM - EBS PIP

Composite	Reference	Client Policy
SyncCustomerPartyListSiebelProvABCSImpl	SWI_spcContact_spcService	oracle/no_authentication_client_policy
SyncCustomerPartyListSiebelProvABCSImpl	SyncCustomerPartyListSiebelService	oracle/no_authentication_client_policy
SyncCustomerPartyListSiebelProvABCSImpl	MergeCustomerPartyListSiebelService	oracle/no_authentication_client_policy
SyncAccountSiebelReqABCSImpl	SWICustomerParty	oracle/no_authentication_client_policy
SyncContactSiebelReqABCSImpl	SWIContactIO	oracle/no_authentication_client_policy
UpdateAssetSiebelProvABCSImpl	SWIAssetManagementIO	oracle/no_authentication_client_policy
CreateAssetSiebelProvABCSImpl	SWIAssetManagementIO	oracle/no_authentication_client_policy
ProcessSalesOrderSiebelReqABCSImplV2	SBLOrderUpsertService	oracle/no_authentication_client_policy
ProcessSalesOrderSiebelReqABCSImplV2	SWIOrderUpsertService	oracle/no_authentication_client_policy
QueryCustomerPartyListSiebelProvABCSImplV2	SWI_spcCustomer_spcParty_spcService	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelProvABCSImpl	SBLOrderUpsertService	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelProvABCSImpl	SWIOrderUpsertService	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelProvABCSImpl	SWIQuoteUpsertService	oracle/no_authentication_client_policy
ProcessQuoteSiebelReqABCSImpl	SWIQuoteUpsert	oracle/no_authentication_client_policy
SyncProductSiebelProvABCSImpl	SWIPromotionIntegration	oracle/no_authentication_client_policy
SyncProductSiebelProvABCSImpl	SWIProductIntegration	oracle/no_authentication_client_policy
SyncItemCompositionListSiebelProvABCSImpl	SWIProductIntegration	oracle/no_authentication_client_policy
ProcessSalesOrderShippingChargeLogisticsProvABCSImpl	IntXmlService	oracle/no_authentication_client_policy

Table 5–21 Wss Username Token Client Policy Attachments for Order to Cash: Siebel CRM - EBS PIP

Composite	Reference	Client Policy
InterfaceCustomerToFulfillmentEBF	CustomerPartyOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
InterfaceSalesOrderToCustomerEBFV2	SalesOrderOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)

Table 5–21 (Cont.) Wss Username Token Client Policy Attachments for Order to Cash: Siebel CRM - EBS PIP

Composite	Reference	Client Policy
InterfaceSalesOrderToFulfillmentEBF	SalesOrderErrorEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
InterfaceSalesOrderToFulfillmentEBF	SalesOrderOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
CreateSalesOrderEbizProvABCSImpl	SalesOrderErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
SyncSalesOrderEbizProvABCSImpl	SalesOrderErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
SyncCustomerPartyListEbizProvABCSImpl	CustomerPartyErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)

For PIP implementation, see *Siebel CRM Integration Pack for Oracle Order Management: Order to Cash 3.1 - Implementation Guide*.

5.7 Undeploying the Order to Cash: Siebel CRM - EBS PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 5–22 Undeployment command for the Order to Cash: Siebel CRM - EBS PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	`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/OrderToCash/DeploymentPlans/OrderToCashUndeployDP.xml -l <AIA_HOME>/pips/OrderToCash/DeploymentPlans/OrderToCashUndeployDP.log`

Table 5–22 (Cont.) Undeployment command for the Order to Cash: Siebel CRM - EBS

Platform	Undeployment Command
Microsoft Windows	`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\OrderToCash\DeploymentPlans\OrderToCashUndeployDP.xml -l <AIA_HOME>\pips\OrderToCash\DeploymentPlans\OrderToCashUndeployDP.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.

> **Note:** Undeploy Session Pool Manager only if no other PIP is using it.

Table 5–23 Undeployment command for Session Pool Manager

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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	`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 Chapter 21, "Uninstalling Oracle AIA"

6

Installing Siebel CRM to OIC Integration

This chapter discusses how to install Siebel CRM to OIC. This chapter includes the following sections:

- Section 6.1, "Software Requirements"
- Section 6.2, "Configuring Oracle Data Integrator"
- Section 6.3, "Configuration Wizard Interview"
- Section 6.4, "Installing Siebel CRM to OIC"
- Section 6.5, "Performing Post-Installation Configurations"
- Section 6.6, "Verifying Installation"
- Section 6.7, "Undeploying the Siebel CRM to OIC Integration"

6.1 Software Requirements

The Siebel CRM to OIC integration requires either Oracle E-Business Suite R12.1.1 or Oracle E-Business Suite R12.1.2 with the following patches:

- Oracle E-Business Suite R12.1.1 with the following patchs:

Table 6–1 Oracle E-Business Suite R12.1.1 Patches

Product	My Oracle Support Patch Number	Description
Oracle E-Business Suite Integration	8611764:R12.HZ.B	EBI: 12.1.1 EBS PATCH TO SUPPORT SIEBEL OIC PIP 2.5
Oracle Incentive Compensation	8904003:R12.CN.B	12.1.1 OIC PATCH TO SUPPORT SIEBEL OIC PIP 2.5
Oracle Incentive Compensation	8918365:R12.CN.B	12.1.1 PATCH TO SUPPORT SIEBEL OIC PIP 2.5 - Drop 1
Oracle Resource Manager	8560891:R12.HZ.B	12.1.1 : ORACLE RESOURCE MANAGER PATCH TO SUPPORT SIEBEL OIC PIP 2.5
Oracle Resource Manager	8915500:R12.HZ.B	JTF_RS_RESOURCE_UTL_ PUB IS NOT RETURNED PROPER STATUS

Table 6–1 (Cont.) Oracle E-Business Suite R12.1.1 Patches

Product	My Oracle Support Patch Number	Description
Siebel CRM Integration to Oracle Incentive Compensation (sblcrmcn)	9010091	ONE-OFF PATCH FOR SIEBEL CRM INTEGRATION TO ORACLE INCENTIVE COMPENSATION 2.5

- Oracle E-Business Suite R12.1.2 with the following patch:

Table 6–2 Oracle E-Business Suite R12.1.2 Patch

Product	My Oracle Support Patch Number	Description
Oracle E-Business Suite Integration	8611764:R12.HZ.B	EBI: 12.1.1 EBS PATCH TO SUPPORT SIEBEL OIC PIP 2.5

- Siebel CRM 7.8.2.x SIA, 8.0.0.x SIA, 8.1.1.x SIA
- Oracle Data Integrator 11*g* Release 1 (11.1.1.3) Java EE installation with the following patches:

Table 6–3 ODI 11g Release (11.1.1.3) Patches

Product	My Oracle Support Patch Number	Description
Oracle Data Integrator	9814235	Oracle Data Integrator: Patch NOSUCHMETHODERROR DURING ODI_SERVER1 STARTUP **Note:** This patch is required for compatibility with Oracle SOA Suite 11*g* Release 1 (11.1.1.4) PS3.
Oracle Data Integrator	10172307	Oracle Data Integrator: Patch ODIINVOKEWEBSERVICE UNABLE TO INVOKE WEBSERVICES WITH USER AUTHENTICATION. **Note:** This patch helps ODI invoke secured web services using HTTP Basic Authentication.

6.2 Configuring Oracle Data Integrator

To run AIA Installer you must have Oracle Data Integrator (ODI) access with Supervisor privileges.

For installation purposes, the ODI software must reside at the same server where Foundation Pack is installed. Once the PIP installation is complete, the ODI software can be installed onto another server (if desired) connecting to the master and work repositories used during the PIP installation.

6.2.1 Creating Oracle Data Integrator Repositories

You can use an existing master repository as long as it exists on an Oracle database and its ID is not 0. If the ID is 0, AIA advises you to create a new master repository.

You can use an existing work repository as long as it exists on an Oracle database and its ID is not 1 or 778. If the ID is 1 or 778, AIA advises you to create a new repository and not to use 1 or 778 as the Work Repository ID.

when you run the configuration wizard, it inserts or updates the ODI artifacts into these repositories.

AIA recommends that you make a backup copy of master and work repositories before you start the installation process.

For information about creating Oracle Data Integrator master and work repositories, see the *Oracle® Fusion Middleware Developer's Guide for Oracle Data Integrator 11g Release 1*, "Administering the Oracle Data Integrator Repositories."

6.3 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of Siebel CRM to OIC integration. Enter the details of the Siebel CRM to OIC screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

6.3.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 6–4 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 _____

Table 6–4 (Cont.) PIP Server Details Screen Fields

Field	Description
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates with 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.

6.3.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 6–5 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Version	This is the version of the E-Business Suite Application. The valid value for Siebel CRM to OIC is `12.1.x`. Other versions are not supported in the 3.1 release.
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____ _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____ _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____ _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `SID.server2.xyz.com`. To find this value, contact your administrator. This field is optional. Workflow Business Event System Name is ___ _____

6.3.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 6–6 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL (universal resource locator) and data source URLs.

6.3.4 Application Details - Siebel CRM Screen

Use this screen to enter details related to your Siebel CRM server instance.

The screen contains the following fields:

Table 6–7 Application Details - Siebel CRM Screen Fields

Field	Description
Siebel Hostname	This value is the fully qualified machine name of the Siebel CRM application. Example: `example1.corp.oracle.com`. Siebel Hostname is _____ _____
Siebel HTTP Port	This is the value of the Siebel CRM application port. To find this value, contact your administrator. Example: `8024`. **Note:** Enter `80` as the port number if the default port is used. Siebel HTTP Port is _____ _____.

Table 6–7 (Cont.) Application Details - Siebel CRM Screen Fields

Field	Description
Siebel EAI Application User	This value is the Siebel application user used to make EAI web service calls. To find this value, contact your administrator. Siebel EAI Application User is _____ _____
Siebel EAI Application Password	To find this value, contact the database administrator. Siebel EAI Application Password is _____ _____
Siebel Enterprise Server Name	To find this value, contact the database administrator. Siebel Enterprise Server Name is _____ _____
Siebel Version	This is the version of the Siebel CRM application. Valid values for Siebel CRM to OIC are 7.8.2.x SIA, 8.0.0.x SIA, and 8.1.1.x SIA. Other versions are not supported for the AIA 3.1 release. **Note:** See My Oracle Support for the latest updates to supported versions.

6.3.5 Siebel CRM Database Details Screen

Use this screen to enter details related to your Siebel CRM database instance.

The screen contains the following fields:

Table 6–8 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com` Siebel Database Host is _____ _____
Siebel Database Port	To find this value, contact the database administrator. Example: `1521` Siebel Database Port is _____ _____
Siebel Database Username	To find this value, contact the database administrator. Example: `ora12345` Siebel Database Username is _____ _____
Siebel Database Password	To find this value, contact your administrator. Siebel Database Password is _____ _____
Siebel Database SID	To find this value, contact the database administrator. Example: `orcl` Siebel Database SID is _____ _____

6.3.6 Oracle Data Integrator Access Details Screens

Oracle Data Integration Access Information is captured in three screens. Use these screens to enter details to access Oracle Data Integrator. The screens contain the following fields:

Table 6–9 Oracle Data Integrator Access Details Screen Fields

Field	Description
Path to Oracle Data Integrator	This value is the fully qualified path to the ODI HOME, including the agent folder in the oracledi directory. The default is the environment variable ODI_HOME. Linux example: `/slot/ems1203/oracle/ODI11113/oracledi/agent`. Path to ODI is _____ **Note:** The existence of the ODI software is validated by checking whether odiparams.sh (or .bat) exists in the ODI_HOME/agent/bin directory.
ODI User	Enter the user name to access ODI. Example: `SUPERVISOR`. ODI user is _____
ODI Password	Enter the password to access ODI. Example: `SUNOPSIS`. ODI password is _____
Path for exported DVMs	Enter the path to the directory to export domain value mappings (DVMs). Example: `$AIA_HOME/abc` One of the steps for setting up the PIP is to export some DVMs to a location. The installer needs to know this location in order to configure ODI artifacts during the install. It is recommended to choose this location in the same server where ODI software will run. Path for Exported DVMs is _____

6.3.7 Oracle Data Integrator Master Repository Details Screen

Use this screen to enter details to access the Oracle Data Integrator master repository. The screen contains the following fields:

Table 6–10 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host Name	To find this value, contact your database administrator. Example: `server1.oracle.com` ODI Master Repository Database Host Name is _____

Table 6–10 (Cont.) Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Port Number	To find this value, contact your database administrator. Example: `1606` ODI Master Repository Database Port Number is_____
Database Username	To find this value, contact your database administrator. Example: `snpm` ODI Master Repository Database Username is _____
Database Password	To find this value, contact your database administrator. Example: `snpm` ODI Master Repository Database Password is _____
Database SID	To find this value, contact your database administrator. Example: `orcl` ODI Master Repository Database SID is _____ _____

6.3.8 Oracle Data Integrator Work Repository Details for Siebel CRM to OIC Screen

The install process imports the Siebel CRM to OIC ODI artifacts into an ODI work repository. You can provide an existing ODI work repository or provide an empty one. It is recommended to use an empty repository.

Use this screen to enter details related to the ODI work repository. The screen contains the following fields:

Table 6–11 Oracle Data Integrator Work Repository Details for Siebel CRM to OIC Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI work repository for Siebel CRM to OIC Artifacts. Example: `SIEBELCRMOIC` ODI Work Repository Name is: _____ _____
ODI Work Repository ID	Enter the ID number that you used for the ODI work repository. It should be between 1 and 899. Example: `42` Do not use 900. Also do not use the ID already used for other work repositories. ODI Work Repository ID is: _____

6.4 Installing Siebel CRM to OIC

This section discusses the Siebel CRM to OIC integration installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your integration using the configuration wizard.
3. Deploy the integration to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

6.4.1 Install Siebel CRM to OIC

To install Siebel CRM to OIC:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 6–12 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

6.4.2 Configure Siebel CRM to OIC

The section discusses configuration process. The screens that appear prompt you to enter the data that is required for successful configuration of Siebel CRM to OIC integration. Keep the completed worksheets Siebel CRM to OIC screens ready before you launch the configuration wizard.

To configure Siebel CRM to OIC:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

This launches the AIA Configuration Wizard.

3. Click **Next.**
4. Select the**Siebel CRM to OIC**
5. Click **Next**.

6.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

6.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite server details:

1. Enter your Oracle E-Business Suite server connection information in the **E-Business Suite Server Details** screen.
2. Click **Next.**

6.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite database details:

1. Enter your Oracle E-Business Suite database connection information in the **E-Business Suite Database Details** screen.
2. Click **Next.**

6.4.2.4 Specify Siebel CRM Application Details

To specify Siebel CRM application details:

1. Enter your Siebel CRM application information in the **Application Details - Siebel CRM** screen.
2. Click **Next.**

6.4.2.5 Specify Siebel CRM Database Details

To specify Siebel CRM database details:

1. Enter your Siebel CRM database connection information in the **Siebel CRM Database Details** screen.
2. Click **Next.**

6.4.2.6 Specify Oracle Data Integrator Access Details

To specify Oracle Data Integrator access details:

1. Enter information about your Oracle Data Integrator access installation in the **Oracle Data Integrator Access Information** screens.

   Oracle Data Integration access information is captured in three screens. Enter the following information in the screens.

2. Specify the **ODI Home**.
3. Click **Next.**
4. Enter **ODI User** and **ODI Password**.
5. Click **Next.**
6. Specify the **Path for exported DVMs**.
7. Click **Next.**

6.4.2.7 Specify Oracle Data Integrator Master Repository Details

To specify Oracle Data Integrator master repository details:

1. Enter information about your Oracle Data Integrator master repository installation in the **Oracle Data Integrator Master Repository** screen.
2. Click **Next.**

6.4.2.8 Specify Oracle Data Integrator Work Repository Details for Siebel CRM to OIC

To specify Oracle Data Integrator work repository details for Siebel CRM to OIC:

1. Enter information about your Oracle Data Integrator work repository installation in the **Oracle Data Integrator Work Repository for Siebel CRM to OIC** screen.
2. Click **Next.**

6.4.2.9 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 6.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

6.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

6.4.4 Deploying the Siebel CRM to OIC Integration

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 6–13 Deployment commands for the Siebel CRM to OIC Integration

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<AIA_INSTANCE>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/SiebelOIC/DeploymentPlans/SiebelOICDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/SiebelOIC/DeploymentPlans/SiebelOICSupplementaryDP.xml -l <AIA_HOME>/pips/SiebelOIC/DeploymentPlans/SiebelOIC.log`

Table 6–13 (Cont.) Deployment commands for the Siebel CRM to OIC Integration

Platform	Deployment Command
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<AIA_INSTANCE>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\SiebelOIC\DeploymentPlans\SiebelOICDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\SiebelOIC\DeploymentPlans\SiebelOICSupplementaryDP.xml -l <AIA_HOME>\pips\SiebelOIC\DeploymentPlans\SiebelOIC.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

6.5 Performing Post-Installation Configurations

This section discusses the post-installation configurations for Siebel CRM to OIC Integration. This section includes the following:

- Section 6.5.1, "Associating the Oracle Data Integrator Console with the Work Repository"
- Section 6.5.2, "Populating the COMPENSATION_ORGANIZATION_ID Cross Reference Manually"
- Section 6.5.3, "Creating Siebel Views"

6.5.1 Associating the Oracle Data Integrator Console with the Work Repository

The Oracle Data Integrator Console must be associated with the work repository that is created for the Siebel CRM to OIC integration.

For information on associating the Oracle Data Integrator Console with the work repository, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Data Integrator 11g Release 1 (11.1.1)*, "Creating a Repository Connection" in "Performing Administrative Operations."

6.5.2 Populating the COMPENSATION_ORGANIZATION_ID Cross Reference Manually

The COMPENSATION_ORGANIZATION_ID cross reference table dynamically maps values between Siebel CRM and Oracle Incentive Compensation.

An example of the COMPENSATION_ORGANIZATION_ID cross reference table is shown here:

Table 6–14 COMPENSATION_ORGANIZATION_ID Cross Reference Table

EBS_01	SEBL_01	COMMON
204	1CE-2MN	204
204	1CE-2UU	204
911	88-25CI5	88-25CI5

Manually populate the COMPENSATION_ORGANIZATION_ID cross reference in the XREF_DATA table in the AIA XREF schema.

For information on populating the COMPENSATION_ORGANIZATION_ID cross reference manually, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle SOA Suite 11g Release 1 (11.1.1)*, "Populating Cross Reference Tables."

6.5.3 Creating Siebel Views

Execute the CREATESIEBELVIEWS - 001 scenario to create Siebel views.

To create Siebel views:

1. Start Oracle Data Integrator Console by logging into http://<hostname>:<port>/odiconsole.
2. On the Browse tab, click **Runtime**, **Scenarios**, **All Scenarios**, and then select CREATESIEBELVIEWS - 001. Right-click, then select **Execute**.

6.6 Verifying Installation

To verify the Siebel CRM to OIC installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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. Start **Oracle Data Integrator Console** by logging into `http://<hostname>:<port>/odiconsole`, and confirm that the Siebel CRM to OIC components are present.

Obtain the username and password from your system administrator.

a. On the **Browse** tab, click **Design Time**, **Projects**, and confirm that the following projects are present:

SiebelCRMToEbizOICSalesOrderProject

SiebelCRMToEbizORMProject

b. On the **Browse** tab, click **Runtime**, **Scenarios**, **All Scenarios**, and confirm that the following scenarios are present:

LOADACTIONCODEDVM

LOADAIACONFIGURATIONPROPERTIES

LOADBUTOPREPROCESSFLAGDVM

LOADCOUNTRYDVM

LOADCURRENCYCODEDVM

LOADSTATEDVM

LOADUNITOFMEASUREDVM

LOAD_SIEBELRESOURCEDATATOEBIZ_PKG

LOAD_SIEBELSALESORDERDATATOEBIZ_PKG

LOAD_SIEBELSALESREPDATATOEBIZ_PKG

LOAD_SIEBELUSERDATATOEBIZ_PKG

c. On the **Browse** tab, click **Topology**, **Data Servers** and confirm that the following data servers are present:

AIAConfigurationProperties

AIADS

EbizDS

OICBUToPreProcessFlagDVM

OICCountryDVM

OICCurrencyDVM

OICSalesOrderActionCodeDVM

OICStateDVM

OICUnitOfMeasureDVM

SiebelDS

d. On the **Browse** tab, click **Topology**, **Schemas** and confirm that the following logical schemas are present:

AIAConfigurationProperties

ESB_XREF

EbizOIC

OICBUToPreProcessFlagDVM

OICCountryDVM

OICCurrencyDVM

OICSalesOrderActionCodeDVM

OICStateDVM

OICUnitOfMeasureDVM

SiebelCRM

e. On the **Browse** tab, click **Topology**, **Contexts** and confirm that the `SiebelCRMToEbizOICContext` context is present.

f. On the **Browse** tab, click **Topology**, **Agents**, **Physical Agents** and confirm that the `SiebelCRMToEbizOICAgent` physical agent is present.

g. On the **Browse** tab, click **Topology**, **Agents**, **Logical Agents** and confirm that the `SiebelCRMToEbizOICAgent` logical agent is present.

For implementation, see *Siebel CRM Integration to Oracle Incentive Compensation 3.1 - Implementation Guide*.

6.7 Undeploying the Siebel CRM to OIC Integration

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 6–15 Undeployment command for the Siebel CRM to OIC Integration

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/SiebelOIC/DeploymentPlans/SiebelOICUndeployDP.xml -l <AIA_HOME>/pips/SiebelOIC/DeploymentPlans/SiebelOICUndeployDP.log`
Microsoft Windows	`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\SiebelOIC\DeploymentPlans\SiebelOICUndeployDP.xml -l <AIA_HOME>\pips\SiebelOIC\DeploymentPlans\SiebelOICUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

7

Installing the Lead to Order: CRM OD - JDE E1 PIP

This chapter discusses how to install the Lead to Order: CRM OD - JDEE1 PIP. This chapter includes the following sections:

- Section 7.1, "Software Requirements"
- Section 7.2, "Configuration Wizard Interview"
- Section 7.3, "Performing Pre-Installation Configurations"
- Section 7.4, "Installing the Lead to Order: CRM OD - JDE E1 PIP"
- Section 7.5, "Performing Post-Installation Configurations"
- Section 7.6, "Verifying Installation"
- Section 7.7, "Undeploying the Lead to Order: CRM OD - JDE E1 PIP"

7.1 Software Requirements

The Lead to Order: CRM OD - JDE E1 PIP requires the following:

- CRM On Demand release 17 or higher.
- JD Edwards EnterpriseOne applications release 9.0.
- JD Edwards EnterpriseOne tools release 8.98.3.0 or higher.

Additionally, you must also install electronic software updates (ESUs), which you can find by searching for these part numbers on http://edelivery.oracle.com/

- V22722-01

  This part number contains JD Edwards EnterpriseOne Tools 8.98.3.0 patch, which is required for the Lead to Order: CRM OD - JDEE1 PIP.

- V22750-01

  This part number contains the required patches for JD Edwards EnterpriseOne Applications 9.0.

The zip file includes these JD Edwards EnterpriseOne ESUs. You must install numbers 1 through 5 in the order specified here. Numbers 6 through 15 can be installed in any order.

1. JL11051
2. JL12014
3. JL13114

4. JL12012
5. JL11935
6. JL14414
7. JL12914
8. JL12060
9. JL12015
10. JL12013
11. JL15147
12. JL12621
13. JL15743
14. JL15014
15. JL15741

7.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Lead to Order: CRM OD - JDE E1 PIP. Enter the details of the Lead to Order: CRM OD - JDE E1 PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

7.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 7–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 _____

Table 7–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates with 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.

7.2.2 CRM on Demand Web Services Details Screen

Use this screen to enter details related to your CRM on Demand Web Services instance.

The screen contains the following fields:

Table 7–2 CRM On Demand Web Services Details Screen Fields

Field	Description
Web Service URL	This value is the location of the CRM On Demand web services. Example: `http://secure-ausomxdsa.crmondemand.com/Services/Integration.` Web service URL location is _____
Company	This is the company Sign In ID associated with the CRM On Demand instance. Example: `COMPANYNAME`. Company is _____
User ID	The user ID value for the designated CRM On Demand integration user responsible for integration transactions within CRM On Demand. Example: `USERID`. User ID is _____
Password	The password that is associated with the CRM On Demand integration user. Example: `PASSWORD`. Password is _____
Operating Unit	Operating unit indicates whether CRMOD Env is implementing Multi org. If it is implementing Multi Org then the value should be 'Y', otherwise 'N' Since JDE does not use Operating Unit, the value entered must be 'N'.

7.2.3 JD Edwards EnterpriseOne Business Services Screen

Use this screen to enter details related to your JD Edwards EnterpriseOne business services.

The screen contains the following fields:

Table 7–3 JD Edwards EnterpriseOne Business Services Screen Fields

Field	Description
Web Services Platform	This value is the web services platform that is used by EnterpriseOne. Valid platforms include Oracle WebLogic Server(WLS) and WebSphere Application Server (WAS). This value can be WLS or WAS. Example: `WLS` Web Services Platform is _____
Web Services Server URL	This value is the location of the EnterpriseOne business services server. This path should include the trailing forward slash at the end of the path, but should not include the web service name. Example: `http://dnvmsvr20.mlab.jdedwards.com:9988/DV900/` Web services server URL is _____
Environment	This is the environment that the integration proxy user accesses during sign on. To find this value, contact your administrator. Example: `DV812CLM.` Environment is _____

7.2.4 Session Pool Manager Screen (Optional)

This PIP uses the Session Pool Manager utility to interact with Siebel web services. If the AIA server must invoke Siebel web services through a proxy server, please 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.

The screen contains the following fields:

Table 7–4 Session Pool Manager Screen Fields

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

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

7.3 Performing Pre-Installation Configurations

You must configure the JVM parameters before installing the Lead to Order: CRM OD - JDE E1 PIP. The values must be:

- Initial Heap Size: 512m or higher

- Max Heap Size: 2048m or higher

> **Note:** The setting values vary depending on your hardware. For more information on how to configure the JVM parameters, see the *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Tuning Java Virtual Machine (JVM)".

7.4 Installing the Lead to Order: CRM OD - JDE E1 PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

7.4.1 Install the Lead to Order: CRM OD - JDE E1 PIP

To install the Lead to Order: CRM OD - JDE E1 PIP

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 7–5 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.

7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

7.4.2 Configure the Lead to Order: CRM OD - JDE E1 PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Lead to Order: CRM OD - JDE E1 PIP. Keep the completed worksheets of the Lead to Order: CRM OD - JDE E1 PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure Lead to Order: CRM OD - JDE E1 PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **Lead to Order: CRM OD - JDE E1 PIP**
8. Click **Next**.

7.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

7.4.2.2 Specify CRM On Demand Web Services Details

To specify CRM On Demand Web Services details:

1. Enter information about your CRM On Demand Web Services installation in the **CRM On Demand Web Services** Information screen.
2. Click **Next.**

7.4.2.3 Specify JD Edwards EnterpriseOne Business Services Details

To specify JD Edwards EnterpriseOne Business Services details:

1. Enter information about your EnterpriseOne Business Services details in the **EnterpriseOne Business Services Information** screen.
2. Click **Next.**

7.4.2.4 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information related to your Session Pool Manager installation in the **Session Pool Manager Details** screen.
2. Click **Next.**

7.4.2.5 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 7.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

7.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

Note: When you run the PIP deployment command, AIACompositeScheduler gets deployed onto WebLogic server along with the PIP.

If you are installing on WebLogic cluster, ensure the following before you run the deployment command:

- **Leasing** is enabled for cluster.
- In the config wizard, if you did not select default option to '**Create default Job Scheduler table and datasource if one does not exist** then ensure that datasource and table for Job Scheduler are created and set on cluster. This option is selected by default.

These tasks enable AIACompsiteScheduler schedule jobs in cluster. This is a requirement from **WebLogic Job Scheduler** which AIACompositeScheduler uses to schedule jobs. For more information, refer to *Implementing and Configuring Job Schedulers* section at `http://download.oracle.com/docs/cd/E12840_01/wls/docs103/commonj/commonj.html#wp1058049`

For information on AIACompositeScheduler, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Deploying AIACompositeScheduler", "Deploying AIACompositeScheduler on Cluster Server."

7.4.4 Deploying the Lead to Order: CRMOD - JDE E1 PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 7–6 Deployment commands for the Lead to Order: CRMOD - JDE E1 PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<instance_name>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderSupplementaryDP.xml -l <AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderDP.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<instance_name>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderSupplementaryDP.xml -l <AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderDP.log`

3. Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester.

For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

7.5 Performing Post-Installation Configurations

This PIP 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, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" .

7.6 Verifying Installation

To verify the Lead to Order: CRM OD - JDE E1 PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX Based Systems: Review the install log located at <AIA_HOME>/aia_instances/<instance_name>/logs or <AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderDP.log to verify that the PIP is successfully installed.
   - For Microsoft Windows: Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs or <AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderDP.log to verify that the PIP is successfully installed.
2. Verify that **AIACompositeScheduler** is deployed.
   a. Log into Weblogic Server console.
   b. Naviagate to **your_domain**, **Deployments** and check whether you can see **AIACompositeScheduler**.
3. Verify whether Session Pool Manager is successfully installed and ensure that the CRMOnDemand server is active.
   a. Log in to the **EM Console**: *http://<server name>:<port number>/em/*
   b. On the left panel under **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1)**, **default** click on **AIASessionPoolManager**.
   c. Click **Test**.
   d. Enter the **Operation = Start.**
   e. Select **WSS Username Token** and use Weblogic user name and password.
   f. Enter **Input Argumemt Host Id = CRMOD_01**.
   g. Click **Test Web Service** button.

You should see a successful initialization response message. Refer to the *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" for details and troubleshooting.

4. Log into the main Application Integration Architecture page.
5. From the Home page, click **Setup** and then click the **GO** button.
6. Select the **System** tab.
7. Verify that a record exists for `JDEE1_01 and CRMOD_01` in **System Code** column.
8. Click **AIA Configuration** in the top menu bar and verify that these configuration properties exist.
   - CreateCustomerAddressCRMODReqABCSImpl
   - CreateCustomerCRMODProvABCSImpl
   - CreateCustomerCRMODReqABCSImpl
   - CreateCustomerJDEE1ProvABCSImpl
   - CreateCustomerJDEE1ReqABCSImpl
   - CreateItemCRMODProvABCSImpl
   - CreateItemJDEE1ReqABCSImpl
   - DeleteCustomerAddressCRMODReqABCSImpl
   - DeleteCustomerCRMODProvABCSImpl
   - DeleteCustomerCRMODReqABCSImpl
   - DeleteCustomerJDEE1ProvABCSImpl
   - DeleteCustomerJDEE1ReqABCSImpl
   - DeleteItemCRMODProvABCSImpl
   - DeleteItemJDEE1ReqABCSImpl
   - QueryOpportunityJDEE1ReqABCSImpl
   - SyncCustomerCRMODProvABCSImpl
   - SyncCustomerJDEE1ReqABCSImpl
   - SyncItemListCRMODProvABCSImpl
   - SyncItemListJDEE1ReqABCSImpl
   - UpdateCustomerAddressCRMODReqABCSImpl
   - UpdateCustomerCRMODProvABCSImpl
   - UpdateCustomerCRMODReqABCSImpl
   - UpdateCustomerJDEE1ProvABCSImpl
   - UpdateCustomerJDEE1ReqABCSImpl
   - UpdateItemCRMODProvABCSImpl
   - UpdateItemJDEE1ReqABCSImpl
9. Confirm that the Lead to Order: CRM OD - JDE E1 PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- AccountWSEndPointCRMOnDemand
- AIASessionPoolManager
- CreateCustomerAddressCRMODReqABCSImpl
- CreateCustomerCRMODProvABCSImpl
- CreateCustomerCRMODReqABCSImpl
- CreateCustomerJDEE1ProvABCSImpl
- CreateCustomerJDEE1ReqABCSImpl
- CreateItemCRMODProvABCSImpl
- CreateItemJDEE1ReqABCSImpl
- CRMOnDemandActivationAgent
- CRMOnDemandIntegrationEventProcessor
- CustomerCRMODRoutingService
- CustomerExtractJDEE1Consumer
- CustomerJDEE1JMSConsumer
- CustomerJDEE1WASConnector
- CustomerPartyEBSV2
- DeleteCustomerAddressCRMODReqABCSImpl
- DeleteCustomerCRMODProvABCSImpl
- DeleteCustomerCRMODReqABCSImpl
- DeleteCustomerJDEE1ProvABCSImpl
- DeleteCustomerJDEE1ReqABCSImpl
- DeleteItemCRMODProvABCSImpl
- DeleteItemJDEE1ReqABCSImpl
- GetCustomerJDEE1WASConnector
- GetIndustryIdCRMOnDemandProvABCSImpl
- ItemEBSV2
- ItemExtractJDEE1Consumer
- ItemJDEE1JMSConsumer
- OpportunityWSEndPointCRMOnDemand
- ProductWSEndPointCRMOnDemand
- QueryOpportunityCRMODProvABCSImpl
- QueryOpportunityJDEE1ReqABCSImpl
- SalesOpportunityEBSV1
- SyncCustomerCRMODProvABCSImpl

- SyncCustomerCRMODRoutingService
- SyncCustomerJDEE1ReqABCSImpl
- SyncItemCRMODRoutingService
- SyncItemListCRMODProvABCSImpl
- SyncItemListJDEE1ReqABCSImpl
- UpdateCustomerAddressCRMODReqABCSImpl
- UpdateCustomerCRMODProvABCSImpl
- UpdateCustomerCRMODReqABCSImpl
- UpdateCustomerJDEE1ProvABCSImpl
- UpdateCustomerJDEE1ReqABCSImpl
- UpdateItemCRMODProvABCSImpl
- UpdateItemJDEE1ReqABCSImpl

10. Navigate to the **SOA Composer**. Verify that you can see the Domain Value Maps for the PIP.

    For information on Domain Value Maps, see *Oracle CRM On Demand Integration Pack for JD Edwards EnterpriseOne: Lead to Order Implementation Guide 3.1, Configuring the Lead to Order PIP, Describing DVMs*

11. Log into the main Application Integration Architecture page.
    a. Find Project Lifecycle Workbench and click **Go**.
    b. On the AIA Project Lifecycle Workbench page, click **Search**.
    c. Click the link in the **Bill Of Material** column to view detailed information for the artifacts included in this PIP.

7.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

       This opens **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 **Client Policy** attachment
    a. Navigate back to **Policies** screen and find the client policy

b. Click the number in **Attachment Count** column.

   This opens **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 7–7 Service Policy Attachments for Lead to Order: CRM OD - JDE E1 PIP E1 PIP

Composite	Service Policy
AccountWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProductWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
OpportunityWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
SyncCustomerCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CustomerCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
SyncItemCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
GetIndustryIdCRMOnDemandUtil	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CustomerJDEE1WASConnector (WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
GetCustomerJDEE1WASConnector (WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 7–8 No Authentication Client Policy Attachments for Lead to Order: CRM OD - JDE E1 PIP

Composite	Reference	Client Policy
AccountWSEndPointCRMOnDemand	ODAccountWS	oracle/no_authentication_client_policy
CRMOnDemandIntegrationEventProcessor	CRMOnDemandIntegrationEventsWS	oracle/no_authentication_client_policy
ProductWSEndPointCRMOnDemand	ProductWebService	oracle/no_authentication_client_policy
OpportunityWSEndPointCRMOnDemand	CRMOnDemandOpportunityWS	oracle/no_authentication_client_policy

Table 7–9 Saml Opt On Client Policy Attachments for Lead to Order: CRM OD - JDE E1 PIP

Composite	Reference	Client Policy
AccountWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	CustomerCRMODRoutingService	oracle/aia_wss10_saml_token_client_policy_OPT_ON
ProductWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
OpportunityWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncCustomerCRMODRoutingService	SyncCustomerCRMODProv	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandActivationAgent	CRMOnDemandIntegrationEventProcessor	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	CreateCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	CreateCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	DeleteCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	DeleteCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	UpdateCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	UpdateCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
SyncItemCRMODRoutingService	SyncCustomerCRMODProvABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
GetIndustryIdCRMOnDemandUtil	AccountWSEndPointCRMOnDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 7–10 Wss Username Client Policy Attachments for Lead to Order: CRM OD - JDE E1 PIP

Composite	Reference	Client Policy
CustomerJDEE1WASConnector (WAS Install Only)	CustomerAndContactManagerWAS	oracle/wss_username_token_client_policy
GetCustomerJDEE1WASConnector (WAS Install Only)	CustomerManagerWAS	oracle/wss_username_token_client_policy
CreateCustomerJDEE1ProvABCSImpl	CustomerAndContactManager	oracle/wss_username_token_client_policy (WLS Install Only)
DeleteCustomerJDEE1ProvABCSImpl	CustomerAndContactManager	oracle/wss_username_token_client_policy (WLS Install Only)

Table 7–10 (Cont.) Wss Username Client Policy Attachments for Lead to Order: CRM OD - JDE E1 PIP

Composite	Reference	Client Policy
UpdateCustomerJDEE1ProvABCSImpl	CustomerManager	oracle/wss_username_token_client_policy (WLS Install Only)
UpdateCustomerJDEE1ProvABCSImpl	CustomerAndContactManager	oracle/wss_username_token_client_policy (WLS Install Only)

For more information about security validation, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle CRM On Demand Integration Pack for JDEdwards EnterpriseOne: Lead to Order 3.1 - Implementation Guide*.

7.7 Undeploying the Lead to Order: CRM OD - JDE E1 PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 7–11 Undeployment command for the Lead to Order: CRM OD - JDE E1 PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderUndeployDP.xml -l <AIA_HOME>/pips/JDEtoOnDemandLeadToOrder/DeploymentPlans/JDEtoOnDemandLeadToOrderUndeployDP.log`
Microsoft Windows	`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\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderUndeployDP.xml -l <AIA_HOME>\pips\JDEtoOnDemandLeadToOrder\DeploymentPlans\JDEtoOnDemandLeadToOrderUndeployDP.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.

> **Note:** Undeploy Session Pool Manager only if no other PIP is using it.

Table 7–12 Undeployment command for Session Pool Manager

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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	`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. AIA Composite Scheduler does not get undeployed when you undeploy the PIP as it belongs to common components. To undeploy AIA Composite Scheduler, run the command specific to your platform.

> **Note:** Undeploy AIA Composite Scheduler only if no other PIP is using it.

Table 7–13 Undeployment command for AIA Composite Scheduler

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/AIACompositeScheduler/V1/DeploymentPlans/AIACompositeSchedulerSupplementaryUndeployDP.xml`

Table 7–13 (Cont.) Undeployment command for AIA Composite Scheduler

Platform	Undeployment Command
Microsoft Windows	`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\AIACompositeScheduler\V1\DeploymentPlans\AIACompositeSchedulerSupplementaryUndeployDP.xml`

5. Restart the SOA server.
6. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

8

Installing the Lead to Order: CRM OD - EBS PIP

This chapter discusses how to install the Lead to Order: CRM OD - EBS PIP. This chapter includes the following sections:

- Section 8.1, "Software Requirements"
- Section 8.2, "Configuration Wizard Interview"
- Section 8.3, "Performing Pre-Installation Configurations"
- Section 8.4, "Installing the Lead to Order: CRM OD - EBS PIP"
- Section 8.5, "Performing Post-Installation Configurations"
- Section 8.6, "Verifying Installation"
- Section 8.7, "Undeploying the Lead to Order: CRM OD - EBS PIP"

8.1 Software Requirements

The Lead to Order: CRM OD - EBS PIP requires:

- CRM On Demand release 16 or later.
- Oracle E-Business Suite R12.1.2, R12.1.1 or R11.5.10.2 with the following patches:
  - Oracle E-Business Suite R12.1.2 with the following patches:

Table 8–1 Oracle E-Business Suite R12.1.2 Required Patches

Product	My Oracle Support Patch Number	Description
Advanced Product Catalog	8313714:R12.EGO.C	Batch load product
Customers Online	7646994:R12.IMC.B	360 degree view page enhancements
Order Capture	8607620:R12.ASO.B	Provide Create Quote service to support OnDemand integration
Order Management	8516700:R12.ONT.B	OM R12.1 RUP for O2C 2.5
Order Management	9924161:R12.ONT.B	Commit conditionally
Receivables	8313700:R12.AR.B	Batch load customer

  - Oracle E-Business Suite R12.1.1 with the following patches:

Table 8–2 Oracle E-Business Suite R12.1.1 Required Patches

Product	My Oracle Support Patch Number	Description
Advanced Product Catalog	8313714:R12.EGO.C	Batch load product
Customers Online	7646994:R12.IMC.B	360 degree view page enhancements
Order Capture	8607620:R12.ASO.B	Provide Create Quote service to support OnDemand integration
Order Management	8516700:R12.ONT.B	OM R12.1 RUP for O2C 2.5
Order Management	8722776:R12.ONT.B	Resolves the issue of Quote detail generating an error in OIP when Bill To information is missing
Order Management	9924161:R12.ONT.B	Commit conditionally
Receivables	8313700:R12.AR.B	Batch load customer
TCA	8253604:R12.HZ.B	AIA: HZ_AIA_CUSTOM_ PKG raises unhandled exp due to query missing org stripe
Trading Community	8745333:R12.HZ.B	R121 Ebis Environment Patch

– Oracle E-Business Suite R11.5.10.2 with the following patches:

Table 8–3 Oracle E-Business Suite R11.5.10.2 Required Patches

Product	My Oracle Support Patch Number	Description
Advanced Product Catalog	7037537	11I.PLM_PF.E:CUMULATIVE ROLLUP PATCH E14
Advanced Product Catalog	8263652	Batch load product events
Customer	3618299	Patch 11i.HZ.N
Customer	4280097	HZ.N Oneoff: Changes to DSS to add restriction option for party merge on submission
Customer	5046954	Backport integration services to 11i
Customer	6434556	Hz.N Oneoff: Order 2 Cash Phase 2 CDH Changes
Customers Online	5398458	ER: Need to view Quotes created for a contact in OCO Transaction Viewer
Customers Online	7624043	360 degree view page enhancements
Order Capture	4252536	11.5.10.3R : Oracle order capture rollup 3 on 11i.aso.m
Order Capture	8342295	Need ASO patch for IStore bug#7488829

Table 8–3 (Cont.) Oracle E-Business Suite R11.5.10.2 Required Patches

Product	My Oracle Support Patch Number	Description
Order Capture	8607610	BR11510: Create Quote service to support OnDemand Integration
Order Capture	10023764	ISTORE DOES NOT RESPECT SEGREGATED STOCK PER DEMAND CLASS
Order Management	4665900	This is the OM Prerequisite Patch (OMPRP) for 11.5.10 customers. This includes multiple critical and recommended OM code fixes as of Oct 2005. This patch is highly recommended for all 11i10 Order Management customers.
Order Management	5118218	July 2006, Order Management (11.5.10) cumulative patch
Order Management	8526377	OM R11I10 RUP for O2C 2.5
Order Management	10182986	Commit conditionally
Product Lifecycle Management	4203793	Patchset 11i.PLM_PF.E
Quoting	8296455	BR11510: DIEBOLD ER 7375446 (qualified price list)
Quoting	4692759	BR11510: INCREASE QUOTE_NAME COLUMN SIZE FROM VARCHAR2(80) TO VARCHAR2(240)
Quoting	9352233	UNABLE TO 'COPY ALL ROWS' FROM SEARCH RESULTS
Receivables	8263544	Batch load customer events
Siebel On Demand	6403464	11.x Ebis Environment Patch
Trading Community	7171816	BO API: GET_ORG_CUSTS_ UPDATED returns PL/SQL Numeric or Value Error
Trading Community	8769578	11510 Ebis Environment Patch

8.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Lead to Order: CRM OD - EBS PIP. Enter the details of the Lead to Order: CRM OD - EBS PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

8.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 8–4 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

8.2.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 8–5 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Version	This is the version of the E-Business Suite application. Valid value is 11.5.10.2 or 12.1.1 or 12.1.2
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application server. Example: `servername.your.company.com`. E-Business Suite Host Name is _____ _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____

Table 8–5 (Cont.) Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite User Name	The user ID value for the designated Oracle E-Business Suite integration user responsible for integration transactions within the Oracle E-Business Suite. E-Business Suite User Name is _____ _____
E-Business Suite Password	The password that is associated with the Oracle E-Business Suite integration user ID E-Business Suite Password is _____ _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `SID.your.company.com`. To find this value, contact your administrator. Workflow Business Event System Name is ___ _____

8.2.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 8–6 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.your.company.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID	To find this value, contact the database administrator. Example: `ebiz`. E-Business Suite Database SID is _____ _____

Table 8–6 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
Database Schema	To find this value, contact the database administrator. Example: `apps`. Database Schema is _____ **Note:** All the database credentials are used for creating the connection pool URL (universal resource locator) and data source URLs.

8.2.4 CRM On Demand Web Services Details Screen

Use this screen to enter details related to your CRM On Demand Web services instance.

The screen contains the following fields:

Table 8–7 CRM On Demand Web Services Details Screen Fields

Field	Description
Web Service URL	This value is the location of the CRM On Demand web services. Example: `http://secure-ausomxdsa.crmondemand.com/Services/Integration`. To obtain the exact value of your CRM On Demand web service: 1. Log in to CRM OD. 2. Go to **Admin.** 3. Go to **Web Services Administration**. 4. Select **Service APIs Service** from LOV and click **Go**. 5. Select **Time** and click **Download Custom WSDL**. 6. At the end of the xml, look for *<soap:address location>* tag. After performing these steps, you see the exact Web Service URL value. Web service URL location is _____
Company	This is the company Sign In ID associated with the CRM On Demand instance. This value is the same as the value entered for "User Sign In ID" when logging in to CRM On Demand. For example, *CORE_XE01/CRMEBSINT*. *CORE_XE01* is the Company Company is _____

Table 8–7 (Cont.) CRM On Demand Web Services Details Screen Fields

Field	Description
User ID	The user ID value for the designated CRM On Demand integration user responsible for integration transactions within CRM On Demand. This value is the same as the value entered for "User Sign In ID" when logging in to CRM On Demand. For example, *CORE_XE01/CRMEBSINT*. *CRMEBSINT* is the User ID User ID is _____
Password	The password that is associated with the CRM On Demand integration user. Example: `PASSWORD`. Password is _____
Operating Unit	Operating unit indicates whether CRMOD Env is implementing Multi org. If it is implementing Multi Org then the value should be 'Y', otherwise 'N'

8.2.5 Session Pool Manager Screen (Optional)

This PIP uses the Session Pool Manager utility to interact with Siebel web services. If the AIA server must invoke Siebel web services through a proxy server, please 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.

The screen contains the following fields:

Table 8–8 Session Pool Manager Screen Fields

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

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

8.3 Performing Pre-Installation Configurations

Modify transaction properties and configure the JVM parameters to complete the PIP installation.

Modifying transaction properties:

1. Login to WebLogic Server Console. Navigate to Services, JTA. Change the value of property **JTA Transaction Timeout** from `30` to `3600`.
2. Change the **SyncMaxWaitTime** parameter as follows:
   a. Log in to the **EM Console**.
   b. Expand **SOA** folder, right click **soa_infra**.
   c. Select**SOA Administration, BPEL Properties, More BPEL Properties**.
   d. Change the value of **syncMaxWaitTime** from `45` to `120`.
   e. Click **Apply**.

Setting JVM parameters:

You must configure the JVM parameters before installing the Lead to Order: CRM OD - EBS PIP. The values must be:

- Initial Heap Size: 512m or higher
- Max Heap Size: 2048m or higher

> **Note:** The setting values vary depending on your hardware. For more information on how to configure the JVM parameters, see the *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Tuning Java Virtual Machine (JVM)".

8.4 Installing the Lead to Order: CRM OD - EBS PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

8.4.1 Install the Lead to Order: CRM OD - EBS PIP

To install the Lead to Order: CRM OD - EBS PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 8–9 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

8.4.2 Configure the Lead to Order: CRM OD - EBS PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Lead to Order: CRM OD - EBS PIP. Keep the completed worksheets of the Lead to Order: CRM OD - EBS PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Lead to Order: CRM OD - EBS PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the**Lead to Order: CRM OD - EBS PIP**
8. Click **Next**.

8.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

8.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your Oracle E-Business Suite Server installation in the **E-Business Suite Server Details** screen.
2. Click **Next.**

8.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your Oracle E-Business Suite Database installation in the **E-Business Suite Database Details** screen.
2. Click **Next.**

8.4.2.4 Specify CRM On Demand Web Services Details

To specify CRM On Demand Web Services details:

1. Enter information about your CRM On Demand Web Services installation in the **CRM On Demand Web Services Information** screen.
2. Click **Next.**

8.4.2.5 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information related to your Session Pool Manager installation in the **Session Pool Manager Details** screen.
2. Click **Next.**

8.4.2.6 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 8.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

---

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.

4. Click **Finish** to close the configuration wizard.

8.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

Note: When you run the PIP deployment command, AIACompositeScheduler gets deployed onto WebLogic server along with the PIP.

If you are installing on WebLogic cluster, ensure the following before you run the deployment command:

- **Leasing** is enabled for cluster.
- In the config wizard, if you did not select default option to '**Create default Job Scheduler table and datasource if one does not exist** then ensure that datasource and table for Job Scheduler are created and set on cluster. This option is selected by default.

These tasks enable AIACompsiteScheduler schedule jobs in cluster. This is a requirement from **WebLogic Job Scheduler** which AIACompositeScheduler uses to schedule jobs. For more information, refer to *Implementing and Configuring Job Schedulers* section at `http://download.oracle.com/docs/cd/E12840_01/wls/docs103/commonj/commonj.html#wp1058049`

For information on AIACompositeScheduler, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Deploying AIACompositeScheduler", "Deploying AIACompositeScheduler on Cluster Server."

8.4.4 Deploying the Lead to Order: CRM OD - EBS PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 8–10 Deployment commands for the Lead to Order: CRM OD - EBS PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<AIA_Instance_name>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/CRMODtoEbizLeadToOrder/DeploymentPlans/CRMODtoEbizLeadToOrderDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/CRMODtoEbizLeadToOrder/DeploymentPlans/CRMODtoEbizLeadToOrderSupplementaryDP.xml -l <AIA_HOME>/pips/CRMODtoEbizLeadToOrder/DeploymentPlans/CRMODtoEbizLeadToOrder.log
Microsoft Windows	ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<AIA_Instance_name>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\CRMODtoEbizLeadToOrder\DeploymentPlans\CRMODtoEbizLeadToOrderDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\CRMODtoEbizLeadToOrder\DeploymentPlans\CRMODtoEbizLeadToOrderSupplementaryDP.xml -l <AIA_HOME>\pips\CRMODtoEbizLeadToOrder\DeploymentPlans\CRMODtoEbizLeadToOrder.log

3. Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or

new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

8.5 Performing Post-Installation Configurations

This section discusses the post-installation configuration for the Lead to Order: CRM OD - EBS PIP. This section contains the following:

- Section 8.5.1, "Populating the inventory_location_id cross-reference Table"
- Section 8.5.2, "Defining the Application Context for E-Business Suite Service Calls"
- Section 8.5.3, "Updating the Oracle E-Business Suite Database"
- Section 8.5.4, "Updating the AIA Configuration Properties"
- Section 8.5.5, "Configuring Session Pool Manager"

8.5.1 Populating the inventory_location_id cross-reference Table

You must create a cross-reference in the inventory_location_id cross-reference (XREF) table for each operating unit in Oracle E-Business Suite for which data is to be synchronized to CRM On Demand. To create a cross-reference in the inventory_location_id XREF table you must perform the following tasks:

1. Identify inventory location details for each operating unit.
2. Create a cross-reference for the inventory location ID of the operating unit.
3. Validate the cross-reference.

To identify inventory location details in Oracle EBS:

1. Log in to Oracle E-Business Suite.
2. Select the **Order Management** responsibilities for the relevant operating unit.
3. Perform the following steps for each of the relevant Order Management responsibilities:
   a. Select **Setup : System Parameter**, **Values** from menu option.
   b. Note the name of the organization associated with the **Item Validation Organization** parameter, for example, DivisionA Operations.
4. To obtain the full name of the operating unit:
   a. Log in to the Oracle E-Business Suite database (apps/apps).
   b. Identify the operating unit for which data is to be synchronized to CRM On Demand.

c. Log in to Oracle Applications and identify the full name of the operating unit, for example, DivisionA Operations (204).

5. Obtain the organization_id of the operating unit by issuing the following query:

```
select organization_id from hr_operating_units where name =
'DivisionA Operations'
```

Where *DivisionA Operations* is the name of the organization associated with the Item Validation Organization parameter that you identified in step 3.

To create cross-references in the inventory_location_id XREF Table:

> **Note:** SOA Domain must be running to perform these steps.

1. Log in to the **WebLogic Server EM Console**.
2. Navigate to **SOA**, **soa-infra**, **default**.
3. Click the **UtilityXREF** composite.
4. Click **Test**.
5. Expand **Security** and select **WSS Username Token**. Use Weblogic username/password.
6. Enter the following values:

Example 8–1 Cross-Refernences in the inventory_location_id XREF Table

```
<XREFTableName>oramds:/apps/AIAMetaData/xref/INVENTORY_LOCATION_
ID.xref</XREFTableName>
<ReferenceColName>EBIZ_01</ReferenceColName>
<ReferenceVal>organization_ID</ReferenceVal>
<ColumnName>COMMON</ColumnName>
<ColumnValue>12345</ColumnValue>
```

In Example 8–1:

- *organization_id* in the <ReferenceVal> record is the organization ID of the operating unit which you identified in the previous procedure.
- *12345* in the <ColumnValue> record is a numeric string with a maximum length of 32 characters.

  The <ColumnValue> you specify must be unique in the inventory_location_id XREF table. If you need to create inventory_location_id records for more than one operating unit, increment the value you specify for the <ColumnValue> record for each subsequent record.

7. Click **Test Web Service**.
8. Restart the SOA server.

To validate the cross-references you created:

1. Log in to the **AIA XREF** database.
2. Using the following query, search the **XREF_DATA** table to confirm that every organization and every inventory location used in the XML files has three records, <ReferenceVal>, <ColumnName>, and ColumnValue>.

Example 8–2 Cross-Reference Validation Query

```
select value||'::'||Xref_column_name from xref_Data where
row_number in (select row_number from xref_data where
xref_table_name = 'oramds:/apps/AIAMetaData/xref/INVENTORY_LOCATION_ID.xref'
and value in ('organization_id'))
```

In Example 8–2, *organization_id* is the organization ID of the operating unit for which you created the cross-reference.

8.5.2 Defining the Application Context for E-Business Suite Service Calls

The application context for E-Business Suite service or API calls comprises the following components:

- Operating unit
- User name
- Responsibility

You must define the application context in process flows where E-Business Suite API or service calls are made. This involves the following steps:

1. Map operating units to the corresponding entities in other applications.

   If the source application's organization context is available in a flow and if it is mapped in the ORGANIZATION_ID cross-reference table, the operatiing unit is obtained by looking up the ORGANIZATION_ID cross-reference table.

   If the organization context is not mapped or cannot be looked up, the default operating unit is used as the organization context value.

   The default operating unit is set in the TransformAppContextEbizService.DefaultOperatingUnit property; the service name is TransformAppcontextEbizService.

2. If required, you can define cross-reference mappings for users between applications in the USER_NAME cross-reference table.

   If the source application's user context is available in a flow and is mapped in the USER_NAME cross-reference table, the user name for E-Business Suite can be derived from the USER_NAME cross-reference table.

   If the user context is not mapped or cannot be looked up, then a default user name is used. The default user is defined in the TransformAppContextEbizService.DefaultUser property; the service name is TransformAppcontextEbizService.

3. Responsibilities must be mapped to the E-Business Suite User+Operating Unit combined field.

   You must specify a valid responsibility that is assigned priviliges to operate in the operating unit, and the responsibility must be assigned to the specified user.

   Map responsibilities in the ORACLE_RESPONSIBILITY domain value map.

   - In the EBIZ_USER_OU column, enter the user name and organization ID in a format like USER_NAME:ORGANIZATION_ID. The following is an example entry:

     EBIZ_USER_OU - OPERATIONS:204

   - In the EBIZ_RESP column, enter the Responsibility to be used for the user and organization specified. The following is an example entry:

EBIZ_RESP - Order Management Super User, Vision Operations (USA)

The default responsibility is set in the TransformAppContextEbizService.DefaultResponsibility property; the service name is TransformAppcontextEbizService.

8.5.3 Updating the Oracle E-Business Suite Database

In the Oracle E-Business Suite database, run the following command:

Example 8–3 Oracle E-Business Suite Database Update Command

```
/
BEGIN
DBMS_AQADM.ALTER_QUEUE(
      queue_name => 'WF_BPEL_Q',
      max_retries => 0,
      retention_time => 0);
end;
/
BEGIN
sys.dbms_aqadm.start_queue(
queue_name => 'AQ$_WF_BPEL_QTAB_E'
, enqueue => FALSE
, dequeue => TRUE);
END;
/
CREATE OR REPLACE PROCEDURE MSG_RESUBMIT (
 MSG_ID RAW,
 CONSUMER_NAME VARCHAR,
 DEQUEUE_NAME VARCHAR,
 RESUBMIT_QUEUE_NAME VARCHAR
) AS
 R_DEQUEUE_OPTIONS DBMS_AQ.DEQUEUE_OPTIONS_T;
 R_ENQUEUE_OPTIONS DBMS_AQ.ENQUEUE_OPTIONS_T;
 R_MESSAGE_PROPERTIES DBMS_AQ.MESSAGE_PROPERTIES_T;
 R_ENQUEU_MESSAGE_PROPERTIES DBMS_AQ.MESSAGE_PROPERTIES_T;
 L_MESSAGE_HANDLE RAW(16);
 RESUBMIT_MESSAGE_ID RAW(2000);
 MSG WF_EVENT_T;
 ANYEXCEPTION EXCEPTION;
 V_MESSAGE_HANDLE RAW(16);
BEGIN
 R_DEQUEUE_OPTIONS.CONSUMER_NAME := NULL;
 R_DEQUEUE_OPTIONS.DEQUEUE_MODE := DBMS_AQ.REMOVE;
 R_DEQUEUE_OPTIONS.WAIT := DBMS_AQ.NO_WAIT;
 R_DEQUEUE_OPTIONS.VISIBILITY := DBMS_AQ.ON_COMMIT;
 R_DEQUEUE_OPTIONS.NAVIGATION := DBMS_AQ.FIRST_MESSAGE;
 R_DEQUEUE_OPTIONS.MSGID := MSG_ID;
 DBMS_AQ.DEQUEUE(
  QUEUE_NAME => DEQUEUE_NAME,
  DEQUEUE_OPTIONS => R_DEQUEUE_OPTIONS,
  MESSAGE_PROPERTIES => R_MESSAGE_PROPERTIES,
  PAYLOAD => MSG,
  MSGID => V_MESSAGE_HANDLE
 );
 R_ENQUEUE_OPTIONS.VISIBILITY:=DBMS_AQ.IMMEDIATE;
 DBMS_AQ.ENQUEUE(
  QUEUE_NAME => RESUBMIT_QUEUE_NAME,
  ENQUEUE_OPTIONS => R_ENQUEUE_OPTIONS,
```

```
  MESSAGE_PROPERTIES => R_ENQUEU_MESSAGE_PROPERTIES,
  PAYLOAD => MSG,
  MSGID => RESUBMIT_MESSAGE_ID
 );

 COMMIT;
 EXCEPTION
 WHEN ANYEXCEPTION THEN
  ROLLBACK;
END;
/
```

8.5.4 Updating the AIA Configuration Properties

To update the AIAConfigurationProperties:

1. Open the following file in a text editor:

   `<AIA_HOME>/aia_instances/<instance_name>/AIAMetaData/config/AIAConfigurationProperties.xml`

   <instance_name> is the value entered while configuring the PIP.

2. Locate the service configuration section for the **CreateSalesQuoteEbizProvABCSImpl** service.

3. Ensure the value of **Routing.CreateSalesQuoteEbizAdapter.EBIZ_01.EndpointURL** is set as follows:

   - http://${fp.server.soaserverhostname}:${fp.server.soaserverport}/soa-infra/services/default/CreateSalesQuoteEbizAdapter/CreateSalesQuoteEbizAdapter_ep if you are using Oracle E-Business Suite 11i
   - http://${fp.server.soaserverhostname}:${fp.server.soaserverport}/soa-infra/services/default/CreateSalesQuoteEbizR12VersionAdapter/CreateSalesQuoteEbizR12VersionAdapter_ep if you are using Oracle E-Business Suite R12.1.1 or R12.1.2

8.5.5 Configuring Session Pool Manager

This PIP 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, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" .

For more information on Session Pool Manager configurations, see MOS ID 1314624.1. This document provides a solution for the **Cipher not initialized** error.

8.6 Verifying Installation

To verify the Lead to Order: CRM OD - EBS PIP installation:

1. Open the log files from the following location and look for warnings and error messages:

   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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. Verify that **AIACompositeScheduler** is deployed.
   a. Log into Weblogic Server console.
   b. Naviagate to **your_domain**, **Deployments** and check whether you can see **AIACompositeScheduler**.
3. Verify whether Session Pool Manager is successfully installed and ensure that the CRMOnDemand server is active.
   a. Login to the **EM Console**: *http://<server name>:<port number>/em/*
   b. On the left panel under **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1)**, **default** click on **AIASessionPoolManager**.
   c. Click **Test** button.
   d. Enter **Operation = Start**.
   e. Select **WSS Username Token** and use Weblogic user name and password.
   f. Enter **Input Argument Host Id = CRMOD_01**.
   g. Click **Test Web Service** button.

   You should see a successful initialization response message. Refer to the *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" for details and troubleshooting.
4. Confirm that the Lead to Order: CRM OD - EBS PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

   - AIASessionPoolManager
   - BatchLoadCustomerPartyListEbizAdapter
   - BatchLoadCustomerPartyListEbizEventConsumer
   - BatchLoadCustomerPartyListEbizReqABCSImpl
   - BatchLoadItemEbizEventConsumer
   - BatchLoadProductEbizReqABCSImpl
   - ContactCRMODRoutingService
   - ContactWSEndPointCRMOnDemand
   - CreateCustomerAddressCRMODReqABCSImpl
   - CreateCustomerCRMODReqABCSImpl
   - CreateCustomerPartyEbizProvABCSImpl
   - CreateItemEbizEventConsumer
   - CreateProductEbizReqABCSImpl
   - CreateSalesOrderEbizProvABCSImpl
   - CreateSalesQuoteEbizAdapter

- CreateSalesQuoteEbizProvABCSImpl
- CreateSalesQuoteEbizR12VersionAdapter
- CRMOnDemandActivationAgent
- CRMOnDemandErrorHandlerService
- CRMOnDemandIntegrationEventProcessor
- CRMOnDemandPriorityIntegrationEventProcessor
- CustomerCRMODRoutingService
- CustomerPartyEBSV2
- CustomerPartyOrchestrationEBSV2
- CustomerPartyOrchestrationResponseEBSV2
- CustomerPartyResponseEBSV2
- DeleteCustomerAddressCRMODReqABCSImpl
- DeleteCustomerCRMODReqABCSImpl
- InterfaceCustomerToFulfillmentEBF
- InterfaceSalesOrderToCustomerEBFV2
- InterfaceSalesOrderToFulfillmentEBF
- InterfaceSalesQuoteToCustomerEBF
- InterfaceSalesQuoteToFulfillmentEBF
- ItemEBSV2
- MergeAccountEbizEventConsumer
- MergeAccountEbizReqABCSImpl
- MergePartyEbizEventConsumer
- MergePartyEbizReqABCSImpl
- OpportunityWSEndPointCRMOnDemand
- OrderWSEndPointCRMOnDemand
- PriorityCRMODRoutingService
- ProcessContactCRMODReqABCSImpl
- ProcessSalesOrderCRMODReqABCSImpl
- ProcessSalesOrderEbizAdapter
- ProcessSalesQuoteCRMODReqABCSImpl
- ProductWSEndPointCRMOnDemand
- QueryCustomerPartyEbizAdapter
- QueryCustomerPartyListCRMODProvABCSImpl
- QueryCustomerPartyListEbizCreateAdapter
- QueryCustomerPartyListEbizUpdateAdapter
- QueryJTFResourceSalesPersonAdapter
- QueryMergeAccountEbizAdapter

- QueryMergeOrgCustEbizAdapter
- QueryPartyMergeEbizAdapter
- QueryRelatedOrgCustEbizAdapter
- QueryResponsibilityEbizAdapter
- QuerySimpleItemAdapter
- QuerySimpleItemBatchLoadAdapter
- QuerySimpleItemUpdateAdapter
- QuoteWSEndPointCRMONDemand
- SalesOrderEBSV2
- SalesOrderOrchestrationEBSV2
- SalesOrderOrchestrationResponseEBSV2
- SalesOrderResponseEBSV2
- SalesQuoteEBS
- SalesQuoteOrchestrationEBS
- SalesQuoteOrchestrationResponseEBS
- SalesQuoteResponseEBS
- SyncCustomerCRMODProvABCSImpl
- SyncCustomerPartyListEbizAdapter
- SyncCustomerPartyListEbizEventConsumer
- SyncCustomerPartyListEbizProvABCSImpl
- SyncCustomerPartyListEbizReqABCSImpl
- SyncCustomerPartyListPersonEbizAdapter
- SyncItemListCRMODProvABCSImpl
- TransformAppContextEbizService
- UpdateCustomerAddressCRMODReqABCSImpl
- UpdateCustomerCRMODReqABCSImpl
- UpdateCustomerPartyEbizProvABCSImpl
- UpdateItemEbizEventConsumer
- UpdateProductEbizReqABCSImpl

5. Verify whether CRM On Demand Error Handler is configured.
   a. Log in to the AIA console.
   b. Navigate to the AIA Setup page.
   c. In the Error Notification tab, verify whether the required values for the fields are set as listed in the table for these services:

Note: NA in the table stands for Not Applicable.

Table 8–11 Error Handler Configuration for Lead to Order: CRM OD - EBS PIP

Service Name	System Code	Error Type	Error Ext Handler
InterfaceCustomerToFulfillmentEBF	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
InterfaceSalesQuoteToFulfillmentEBF	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
InterfaceSalesOrderToCustomerEBFV2	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
CreateSalesOrderEbizProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
SyncItemListCRMODProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
UpdateCustomerPartyEbizProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
SyncCustomerPartyListEbizProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
CreateSalesQuoteEbizProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
CreateCustomerPartyEbizProvABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
CreateCustomerAddressCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
CreateCustomerCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
DeleteCustomerAddressCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
UpdateCustomerAddressCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
UpdateCustomerCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
ProcessSalesOrderCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
ProcessContactCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
DeleteCustomerCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT
ProcessSalesQuoteCRMODReqABCSImpl	NA	AIA_EH_ONDEMAND	ERRORHANDLER_EXT

8.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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 8–12 Service Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Service Policy
AccountWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ContactCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ContactWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CRMOnDemandPriorityIntegrationEventProcessor	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CustomerCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
OpportunityWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
OrderWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
PriorityCRMODRoutingService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProductWSEndPointCRMOnDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QuoteWSEndPointCRMONDemand	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 8–12 (Cont.) Service Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Service Policy
TransformAppContextEbizService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
UtilityXREF	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 8–13 No Authentication Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
AccountWSEndPointCRMOnDemand	ODAccountWS	oracle/no_authentication_client_policy
ContactWSEndPointCRMOnDemand	CRMOnDemandContactWS	oracle/no_authentication_client_policy
CRMOnDemandIntegrationEventProcessor	CRMOnDemandIntegrationEventsWS	oracle/no_authentication_client_policy
CRMOnDemandPriorityIntegrationEventProcessor	CRMOnDemandPriorityEventsWebService	oracle/no_authentication_client_policy
OpportunityWSEndPointCRMOnDemand	CRMOnDemandOpportunityWS	oracle/no_authentication_client_policy
OrderWSEndPointCRMOnDemand	ODOrderWS	oracle/no_authentication_client_policy
ProductWSEndPointCRMOnDemand	ProductWebService	oracle/no_authentication_client_policy
QuoteWSEndPointCRMONDemand	ODQuoteWS	oracle/no_authentication_client_policy
ProcessSalesQuoteCRMODReqABCSImpl	UserWS	oracle/no_authentication_client_policy

Table 8–14 Saml Opt On Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
AccountWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
ContactCRMODRoutingService	ProcessContactCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
ContactWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandActiviationAgent	CRMOnDemandIntegrationEventProcessor	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandActiviationAgent	CRMOnDemandPriorityIntegrationEventProcessor	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 8–14 (Cont.) Saml Opt On Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
CRMOnDemandErrorHandlerService	AccountWSEndPointCRMOnDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandErrorHandlerService	AIAErrorTaskAdministrationProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandErrorHandlerService	ContactWSEndPointCRMOnDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandErrorHandlerService	OrderWSEndPointCRMOnDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandErrorHandlerService	QuoteWSEndPointCRMONDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	ContactCRMODRoutingService	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandIntegrationEventProcessor	CustomerCRMODRoutingService	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandPriorityIntegrationEventProcessor	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandPriorityIntegrationEventProcessor	PriorityCRMODRoutingService	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	CreateCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	CreateCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	DeleteCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	DeleteCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	UpdateCustomerAddressCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CustomerCRMODRoutingService	UpdateCustomerCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 8–14 (Cont.) Saml Opt On Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
OpportunityWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
OrderWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
PriorityCRMODRoutingService	ProcessSalesOrderCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
PriorityCRMODRoutingService	ProcessSalesQuoteCRMODReqABCSImpl	oracle/aia_wss10_saml_token_client_policy_OPT_ON
ProductWSEndPointCRMOnDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
QuoteWSEndPointCRMONDemand	AIASessionPoolManager	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	QueryRespEbizAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 8–15 Wss Username Token Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
InterfaceCustomerToFulfillmentEBF	CustomerPartyOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
InterfaceSalesOrderToCustomerEBFV2	SalesOrderOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
InterfaceSalesOrderToFulfillmentEBF	SalesOrderErrorEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
InterfaceSalesOrderToFulfillmentEBF	SalesOrderOrchestrationErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
CreateSalesOrderEbizProvABCSImpl	SalesOrderErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)
SyncCustomerPartyListEbizProvABCSImpl	CustomerPartyErrorResponseEBSV2	oracle/wss_username_token_client_policy(AIABasicCredentials)

For more information about security validation, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Lead to Order Integration Pack for Oracle CRM On Demand and Oracle E-Business Suite 3.1 - Implementation Guide*.

8.7 Undeploying the Lead to Order: CRM OD - EBS PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 8–16 Undeployment command for Lead to Order: CRM OD - EBS PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/CRMODtoEbizLeadToOrder/DeploymentPlans/CRMODtoEbizLeadToOrderUndeployDP.xml -l <AIA_HOME>/pips/CRMODtoEbizLeadToOrder/DeploymentPlans/CRMODtoEbizLeadToOrderUndeployDP.log`
Microsoft Windows	`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\CRMODtoEbizLeadToOrder\DeploymentPlans\CRMODtoEbizLeadToOrderUndeployDP.xml -l <AIA_HOME>\pips\CRMODtoEbizLeadToOrder\DeploymentPlans\CRMODtoEbizLeadToOrderUndeployDP.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.

Note: Undeploy Session Pool Manager only if no other PIP is using it.

Table 8–17 Undeployment command for Session Pool Manager

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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	`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. AIA Composite Scheduler does not get undeployed when you undeploy the PIP as it belongs to common components. To undeploy AIA Composite Scheduler, run the command specific to your platform.

> **Note:** Undeploy AIA Composite Scheduler only if no other PIP is using it.

Table 8–18 Undeployment command for AIA Composite Scheduler

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/AIACompositeScheduler/V1/DeploymentPlans/AIACompositeSchedulerSupplementaryUndeployDP.xml`
Microsoft Windows	`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\AIACompositeScheduler\V1\DeploymentPlans\AIACompositeSchedulerSupplementaryUndeployDP.xml`

5. Restart the SOA server.
6. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

9

Installing the Financials Ops Control: Oracle Retail - PSFT PIP

This chapter discusses how to install the Financials Ops Control: Oracle Retail - PSFT PIP. This chapter includes the following sections:

- Section 9.1, "Software Requirements"
- Section 9.2, "Configuring Oracle Data Integrator"
- Section 9.3, "Creating Oracle Data Integrator Repositories"
- Section 9.4, "Configuration Wizard Interview"
- Section 9.5, "Installing the Financials Ops Control: Oracle Retail - PSFT PIP"
- Section 9.6, "Performing Post-Installation Configurations"
- Section 9.7, "Verifying Financials Ops Control: Oracle Retail - PSFT PIP Installation"
- Section 9.8, "Undeploying the Financials Ops Control: Oracle Retail - PeopleSoft PIP"

9.1 Software Requirements

The Financials Ops Control: Oracle Retail - PSFT PIP requires:

- Oracle Retail Merchandising Suite:
- Oracle Retail Merchandising System 13.1.1.3
- Oracle Retail Invoice Matching 13.1.1.2
- Oracle Retail Integration Bus 13.1.1
- For PeopleSoft Financials 9.0:
  - PeopleTools 8.49.19 or greater.
  - Resolution 791023 applied first then 801426, 776755, 845240 and 843161.
- For PeopleSoft Financials 9.1:
  - PeopleTools 8.50 or greater
  - Resolutions 845787 and 843169.
- Oracle Data Integrator 11g Release 1 (11.1.1.3) with the following patches:

Table 9–1 ODI 11g Release (11.1.1.3) Patches

Product	My Oracle Support Patch Number	Description
Oracle Data Integrator	9814235	Oracle Data Integrator: Patch NOSUCHMETHODERROR DURING ODI_SERVER1 STARTUP **Note:** This patch is required for compatibility with Oracle SOA Suite 11*g* Release 1 (11.1.1.4) PS3.
Oracle Data Integrator	10172307	Oracle Data Integrator: Patch ODIINVOKEWEBSERVICE UNABLE TO INVOKE WEBSERVICES WITH USER AUTHENTICATION. **Note:** This patch helps ODI invoke secured web services using HTTP Basic Authentication.

Note: Ensure that the installation type for ODI includes an Agent folder (Standalone with agent)

9.2 Configuring Oracle Data Integrator

To run AIA Installer you must have ODI access with Supervisor privileges.

For install purposes, the ODI software must reside at the same server where Foundation Pack is installed. Once the PIP installation is complete, the ODI Software can be installed into another server (if desired) connecting to the master and work repositories provided during the PIP installation.

If you decide to have ODI software running on a different server than Foundation Pack, after installing the PIP, you should copy the *<aia_home>/config/AIAConfigurationProperties.xml* file into that server, then modify the JDBC URL information for the AIA Configuration Properties DS Data Server in ODI to point to the new location of the AIAConfigurationProperties.xml

AIA Configuration Properties DS is located in the **Physical Architecture** tab in ODI topology. The JDBC URL is located under the JDBC tab.

For example, after installing you copied the file into Z:/Oracle/PIP/. Consider the following JDBC URL:

```
jdbc:snps:xml?f=D:/Oracle/FPAIAHOME/config/AIAConfigurationProperties.xml&s=AIACONFIGSCHEMA
```

Then update the path to the location of the file in the server where ODI software will be running:

```
jdbc:snps:xml?f=Z:/Oracle/PIP/AIAConfigurationProperties.xml&s=AIACONFIGSCHEMA
```

For more information, see Notes on the Recommended Topology section for additional configurations for running ODI in a different server.

The ODI batch pieces of the Retail to PSFT PIP are designed to process extremely large transaction volumes. You need to adjust and tune all databases accordingly particularly the rollback capability of the Retail (source) database. For this you need to size the UNDO tablespace. For information on how to size the UNDO tablespace, refer to the OTN article at:
http://www.oracle.com/technology/oramag/oracle/05-jul/o45tuning.html

9.3 Creating Oracle Data Integrator Repositories

You can use an existing master repository as long as it exists on an Oracle database. You need not create a new master repository.

You can use an existing work repository as long as it exists on an Oracle database and its ID is not 900. If its ID is 900, AIA advises you to create a new repository and do not use 900 as Work Repository ID

when you run the configuration wizard, it inserts/updates the PIP artifacts into these repositories.

AIA recommends that you take a backup of master and work repositories before you start the install process.

For information about creating Oracle Data Integrator Master and Work repositories, see the *Oracle® Fusion Middleware Developer's Guide for Oracle Data Integrator 11g Release 1*, "Administering the Oracle Data Integrator Repositories."

9.4 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Financials Ops Control: Oracle Retail - PSFT PIP. Enter the details of the Financials Ops Control: Oracle Retail - PSFT PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

Note: Oracle Schema Names are in uppercase. Enter the schema names in uppercase in the configuration wizard screens.

9.4.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 9–2 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. 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. Example: `7001`. The Admin Port is _____

Table 9–2 (Cont.) PIP Server Details Screen Fields

Field	Description
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

9.4.2 PeopleSoft FSCM Web Services Details Screen

Use this screen to enter details related to your PeopleSoft FSCM Web Services instance. These details are also used by the DrillBackForward service to:

- Construct the URL for PSFT
- Communicate with PSFT web service deployed at this location

The screen contains the following fields:

Table 9–3 PeopleSoft FSCM Web Services Details Screen Fields

Field	Description
Host Name	This value is the host name for the web service provided by PeopleSoft. To find this value, contact PeopleSoft system administrator. Example: `rtas245.peoplesoft.com` PeopleSoft FSCM Web Services Host Name is _____
Port Number	This value is the port for the web service provided by PeopleSoft. To find this value, contact the PeopleSoft system administrator. Example: `7501` PeopleSoft FSCM Web Services Port Number is _____
Default Local Node	This value is the default local node for the specific instance of PeopleSoft. This value is unique to the instance of PeopleSoft and enables the PeopleSoft Gateway to identify the application server to which it should route the web service request. Example: `E900B20` PeopleSoft FSCM Web Services Default Local Node is _____

9.4.3 PeopleSoft FSCM Application URL Details Screen

Use this screen to enter details related to PeopleSoft FSCM Application URL. These details are used by the DrillBackForward service to construct PSFT application URL.

The screen contains the following fields:

Table 9–4 PeopleSoft FSCM Application URL Details Screen Fields

Field	Description
Servlet	This value is the name of the PeopleSoft FSCM Application Servlet. To find this value, contact the PeopleSoft system administrator. Example: `psp` PeopleSoft FSCM Application Servlet name is _____
Site	This value is the Site name of the PeopleSoft FSCM application. To find this value, contact the PeopleSoft system administrator. Example: `e900b20nt` PeopleSoft FSCM Application Site name is __ _____
Portal,Node,Content	This value is the Portal, Node, Content for the PeopleSoft FSCM Application. To find this value, contact the PeopleSoft system administrator. Please enter this information in this format: <portal>/<node>/<content>Example: `EMPLOYEE/ERP/c` The Portal, Node, Content for the PeopleSoft FSCM Application is _____

9.4.4 PeopleSoft FSCM Database Connection Details Screen

Use this screen to enter details related to your PeopleSoft FSCM database connection instance.

The screen contains the following fields:

Table 9–5 PeopleSoft FSCM Database Connection Details Screen Fields

Field	Description
Database Type	This value is the database type being used by the PeopleSoft Financials system. To find this value, contact the database administrator. Example: `Oracle` PeopleSoft Financials system Database Type is _____.
Database Host Name	This value is the PeopleSoft database host name. To find this value, contact the database administrator. Example: `psftserver.mycompany.com` PeopleSoft Financials system Database Host Name is _____.

Table 9–5 (Cont.) PeopleSoft FSCM Database Connection Details Screen Fields

Field	Description
Database Port Number	This value is the PeopleSoft database host name. To find this value, contact the database administrator. Example: `1588` PeopleSoft Financials system Database Port Number is _____.
SID (System ID)	To find this value, contact the database administrator. Example: `psftfscm` PeopleSoft Financials system SID is _____.
Database Username	To find this value, contact the database administrator. Example: `psft` PeopleSoft Financials system Database Username is _____.
Database Password	To find this value, contact the database administrator. Example: `welcome` PeopleSoft Financials system Database Password is _____.
Database Schema	This value is same as the Database user name in most cases. However, if the database user name uses synonymous schema to access the actual tables, provide the schema name that owns the tables. This value is the PeopleSoft database schema. To find this value, contact the database administrator. Example: `psft` PeopleSoft Financials system Database Schema is _____.

9.4.5 Oracle Retail Service Layer Connection Details Screen

Use this screen to enter details related to your Oracle Retail Service Layer connection database instance. These details are also used by the DrillBackForward service to communicate with Retail service.

The screen contains the following fields:

Table 9–6 Oracle Retail Service Layer Connection Details Screen Fields

Field	Description
Host Name	This value is the host name for the web services provided by Retail. To find this value, contact the Retail system administrator. Example: `mspdev68`. Host Name is _____
Port Number	This value is the port for the web services provided by Retail. To find this value, contact the Retail system administrator. Example: `7781`. Port Number is _____

9.4.6 Oracle Retail Integration Bus Connection Details Screen

Use this screen to enter details related to your Oracle Retail Integration Bus connection database instance.

The screen contains the following fields:

Table 9–7 Oracle Retail Integration Bus Connection Details Screen Fields

Field	Description
Database Host Name	This value is the database host name for the Retail Integration Bus (RIB) database connection. To find this value, contact the Retail database administrator. Example: `mspdev73`. Oracle Retail Integration Bus Database Host Name is _____.
Database Port Number	This value is the database port number for the RIB database connection. To find this value, contact the Retail database administrator. Example: `1521` Oracle Retail Integration Bus Database Port Number is _____.
Database SID	This value is the database system ID for the RIB database connection. To find this value, contact the Retail database administrator. Example: `dvolr022` Oracle Retail Integration Bus Database SID is _____.
Database Username	This value is the database username for the RIB database connection. To find this value, contact the Retail database administrator. Example: `ribaq` Oracle Retail Integration Bus Database Username is _____.
Database Password	This value is the database password for the RIB database connection. To find this value, contact the Retail database administrator. Example: `retek` Oracle Retail Integration Bus Database Host Name is _____.

9.4.7 Oracle Retail Database Connection Details Screen

Use this screen to enter details related to your Oracle Retail database connection instance.

The screen contains the following fields:

Table 9–8 Oracle Retail Database Connection Details Screen Fields

Field	Description
Database Host Name	To find this value, contact the database administrator. Example `retekserver.oracle.com` Oracle Retail Database Host Name is_____ _____

Table 9–8 (Cont.) Oracle Retail Database Connection Details Screen Fields

Field	Description
Database Port Number	To find this value, contact the database administrator. Example: `1521` Oracle Retail Database is Port Number _____ _____
Database SID	To find this value, contact the database administrator. Example `retek` Oracle Retail Database SID is _____ _____
Database Username	To find this value, contact the database administrator. Example: `retek` Oracle Retail Database Username is _____ _____
Database Password	To find this value, contact the database administrator. Example: `welcome` Oracle Retail Database Password is _____ _____
Database Schema	This value is same as the Database user name in most cases. However, if the database user name uses synonymous schema to access the actual tables, provide the schema name that owns the tables. To find this value, contact the database administrator. Example: `retek` Oracle Retail Database Schema is _____ _____

9.4.8 Oracle Data Integrator Access Details Screen

Use this screen to enter details to access Oracle Data Integrator. The screen contains the following fields:

Table 9–9 Oracle Data Integrator Access Details Screen Fields

Field	Description
Path to Oracle Data Integrator	Provide the path to the ODI HOME up to the agent folder (included). To find this value, contact your administrator. Example: `/slot/ems3344/oracle/ODI11113/oracledi/agent` (for Linux) Oracle Data Integrator Path is _____ _____
ODI User	To find this value, contact your administrator. Example: `SUPERVISOR`. Oracle Data Integrator User is _____ _____
ODI Password	To find this value, contact your administrator. Example: `SUNOPSIS` Oracle Data Integrator Password is _____ _____

Table 9–9 (Cont.) Oracle Data Integrator Access Details Screen Fields

Field	Description
Path for exported DVMs	Enter the path to directory to export Domain Value Mappings (DVM). Example: `$AIA_HOME/PIPS/Core/DIS/RetailToPSFTFin/DVM` One of the steps for setting up the PIP is to export some DVMs to a location. The installer needs to know this location in order to configure ODI artifacts during the install. It is recommended to choose this location in the same server where ODI software will run. Path for Exported DVM is _____

9.4.9 Oracle Data Integrator Master Repository Details Screen

You must set up an ODI Master Repository prior to installing the Financials Ops Control: Oracle Retail - PSFT PIP. This master repository must be created in an Oracle database. The install process appends PIP artifacts into this master repository.

Use this screen to enter details to access the Oracle Data Integrator Master Repository.

The screen contains the following fields:

Table 9–10 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host Name	To find this value, contact your database administrator. Example: `server1.oracle.com` Oracle Database Integrator Master Repository Database Host Name is _____
Database Port Number	To find this value, contact your database administrator. Example: `1521` Oracle Database Integrator Master Repository Database Port Number is_____
Database SID	To find this value, contact your database administrator. Example: `orcl` Oracle Database Integrator Master Repository Database SID is _____
Database Username	To find this value, contact your database administrator. Example: `snpm` Oracle Database Integrator Master Repository Database Username is _____
Database Password	To find this value, contact your database administrator. Example: `snpm` Oracle Database Integrator Master Repository Database Password is _____

9.4.10 Oracle Data Integrator Work Repository for Retail to PeopleSoft Financials PIP Details Screen

The install process imports the Retail to PeopleSoft Financials ODI artifacts into an ODI Work repository. You can provide an existing ODI Work Repository or provide an empty one. It is recommended to use an empty repository.

Use this screen to enter details related to the ODI Work Repository.

The screen contains the following fields:

Table 9–11 Oracle Data Integrator Work Repository for Retail to PeopleSoft Financials PIP Details Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI Work Repository for PIP Artifacts. Example: `RETAILPSFT` ODI Work Repository Name is: _____
ODI Work Repository ID	Enter the ID number that you used for the ODI Work Repository. It should be between 1 and 899. Example: `42` Do not use 900. Also do not use the ID already used for other work repositories. ODI Work Repository ID is: _____

9.5 Installing the Financials Ops Control: Oracle Retail - PSFT PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

9.5.1 Install the Financials Ops Control: Oracle Retail - PSFT PIP

To install the Financials Ops Control: Oracle Retail - PSFT PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 9–12 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches the **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

9.5.2 Configure the Financials Ops Control: Oracle Retail - PSFT PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Financials Ops Control: Oracle Retail - PSFT PIP. Keep the completed worksheets of the Financials Ops Control: Oracle Retail - PSFT PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Financials Ops Control: Oracle Retail - PSFT PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the**Financials Ops Control: Oracle Retail - PSFT PIP**
8. Click **Next**.

9.5.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

9.5.2.2 Specify PeopleSoft FSCM Web Services Details

To specify PeopleSoft FSCM Web Services details:

1. Enter information about your PeopleSoft FSCM Web Services installation in the **PeopleSoft FSCM Web Services Information** screen.
2. Click **Next.**

9.5.2.3 Specify PeopleSoft FSCM Application URL Details

To specify PeopleSoft FSCM Application URL details:

1. Enter information about your PeopleSoft FSCM Web Application URL in the **PeopleSoft FSCM Application URL** screen.
2. Click **Next.**

9.5.2.4 Specify PeopleSoft FSCM Database Connection Details

To specify PeopleSoft FSCM Database Connection details:

1. Enter information about your PeopleSoft FSCM Database Connection installation in the **PeopleSoft FSCM Database Connection Information** screen.
2. Click **Next.**

9.5.2.5 Specify Oracle Retail Service Layer Connection Details

To specify Oracle Retail Service Layer Connection details:

1. Enter information about your Oracle Retail Service Layer Connection installation in the **Oracle Retail Service Layer Connection Information** screen.
2. Click **Next.**

9.5.2.6 Specify Oracle Retail Integration Bus Connection Details

To specify Oracle Retail Integration Bus Connection details:

1. Enter information about your Oracle Retail Integration Bus Connection installation in the **Oracle Retail Integration Bus Connection Information** screen.
2. Click **Next.**

9.5.2.7 Specify Oracle Retail Database Connection Details

To specify Oracle Retail Database Connection details:

1. Enter information about your Oracle Retail Database Connection installation in the **Oracle Retail Database Connection Information** screen.
2. Click **Next.**

9.5.2.8 Specify Oracle Data Integrator Access Details

To specify Oracle Data Integrator Access details:

1. Enter information about your Oracle Data Integrator Access installation in the **Oracle Data Integrator Access Information** screens.

   Oracle Data Integration Access Information is captured in three screens. Enter the following information in the screens.

2. Specify **ODI Home**.
3. Click **Next.**
4. Enter **ODI User** and **ODI Password**.
5. Click **Next.**
6. Specify the **Path for exported DVMs**.
7. Click **Next.**

9.5.2.9 Specify Oracle Data Integrator Master Repository Details

To specify Oracle Data Integrator Master Repository details:

1. Enter information about your Oracle Data Integrator Master Repository installation in the **Oracle Data Integrator Master Repository** screen.
2. Click **Next.**

9.5.2.10 Specify Oracle Data Integrator Work Repository Details

To specify Oracle Data Integrator Work Repository details:

1. Enter information about your Oracle Data Integrator Work Repository installation in the **Oracle Data Integrator Work Repository for Retails to PeopleSoft Financials** screen.
2. Click **Next.**

9.5.2.11 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 9.5.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

   ---

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

9.5.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

9.5.4 Deploying the Financials Ops Control: Oracle Retail - PSFT PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 9–13 Deployment commands for the Financials Ops Control: Oracle Retail - PSFT PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<AIA_Instance>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsSupplementaryDP.xml -l <AIA_HOME>/pips/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsDP.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<AIA_Instance>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsConditionalPolicy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsSupplementaryDP.xml -l <AIA_HOME>\pips\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or

new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

9.6 Performing Post-Installation Configurations

This section discusses the following post-installation configurations for the Financials Ops Control: Oracle Retail - PSFT PIP:

- Section 9.6.1, "Configuring Retail to PeopleSoft Accounting Entries Integration"
- Section 9.6.2, "Configuring Retail to PeopleSoft Invoice/Voucher Integration"
- Section 9.6.3, "Configuring Web Services for Financials Ops Control: Oracle Retail - PSFT PIP (Optional)"
- Section 9.6.4, "Creating Sequence Rights to PeopleSoft Database User (Required)"
- Section 9.6.5, "Verifying the Database Connection (Optional)"
- Section 9.6.6, "Setting Up and Exporting Domain Value Mappings (Required)"
- Section 9.6.7, "Setting Up ORGANIZATION_ID XREF (Required)"

9.6.1 Configuring Retail to PeopleSoft Accounting Entries Integration

The Retail to PeopleSoft_AccountingEntry ODI Integration can be configured to send emails to an individual when a successful transaction occurs.

To send emails to individuals on successful transaction:

1. Edit the **AIAConfigurationProperties.xml** file located in **AIA_HOME/config**.
2. Set the polling interval.

   ```
   <Property name="PollingInterval">300000</Property>
   ```

   The ODI process has a polling interval, which is the period of time (in milliseconds) the process waits before polling tables for new data. This polling interval can be changed as required.
3. Modify the property name:

Example 9–1 Property Name Modification

```
<Property name="FromMailAddress">admin@company.com</Property>
<Property name="ToMailAddress">admin@compnay.com</Property>
<Property name="MailServerName">mail.company.com</Property>
```

4. Enter the email ID of the recipient in the **ToMailAddress** section to specify the person to receive the email messages.

5. Enter the email ID of the sender in the **FromMailAddress** section.

   This value is required by the email process to send the email. Oracle AIA recommends that FromMailAddress and ToMailAddress to prevent the recipient from receiving two emails for the same successful process.

6. Enter the name of the mail server in the **MailServerName** section to specify the mail server.

After you modify the AIAConfigurationProperties.xml file, update the MDS with the information.

To update SOA-MDS, apps/AIAMetaData:

1. Browse to the folder at $AIA_HOME/aia_instances/$INSTANCE_NAME/bin.
2. Execute `source aiaenv.sh` and source the file aiaenv.sh.
3. Browse to the folder at $AIA_HOME/aia_instances/$INSTANCE_NAME/config and open UpdateMetaDataDP.xml.
4. Update the file UpdateMetaDataDP.xml by inserting include tags for each resource group that you want to add to the MDS.
   - To upload all the files under "AIAMetaData", add <include name ="AIAMetadata/**"/>
   - To upload the files copied to AIAComponents/ApplicationObjectLibrary/SEBL/schemas folder, add <include name ="AIAComponents/ApplicationObjectLibrary/SEBL/schemas/**"/>

   Note: In the include tag, the folder path must be relative to the folder AIAMetaData.

5. Browse to AIA_HOME/Infrastructure/Install/scripts.
6. Execute ant -f UpdateMetaData.xml to update MDS.

9.6.2 Configuring Retail to PeopleSoft Invoice/Voucher Integration

The Retail to PeopleSoft Invoice ODI Integration can be configured to send emails to an individual when a successful transaction occurs.

To send emails to individuals on successful transaction:

1. Edit the **AIAConfigurationProperties.xml** file located in **AIA_HOME/config**.
2. Set the polling interval.

   ```
   <Property name="PollingInterval">300000</Property>
   ```

   The ODI process has a polling interval, which is the period of time (in milliseconds) the process waits before polling tables for new data. This polling interval can be changed as required.

3. Modify the property name:

Example 9–2 Property Name Modification

```
<Property name="FromMailAddress">admin@company.com</Property>
<Property name="ToMailAddress">admin@company.com</Property>
```

```
<Property name="MailServerName">mail.company.com</Property>
```

4. Enter the email ID of the recipient in the **ToMailAddress** section to specify the person to receive the email messages.
5. Enter the email ID of the sender in the **FromMailAddress** section.

   This value is required by the email process to send the email. Oracle AIA recommends that FromMailAddress and ToMailAddress to prevent the recipient from receiving two emails for the same successful process.\
6. Enter the name of the mail server in the **MailServerName** section to specify the mail server.

9.6.3 Configuring Web Services for Financials Ops Control: Oracle Retail - PSFT PIP (Optional)

In addition to the above modules, you can perform post-installation configuration for the following services:

- CreatePaymentTermPeopleSoftReqABCSImpl
- CreatePaymentTermRetailProvProvABCSImpl
- CreateSupplierPartyListPeopleSoftReqABCSImpl
- CreateSupplierPartyRetailProvProvABCSImpl
- DrillBackForward
- ProcessGLAccountValidationPeopleSoftProvABCSImpl
- ProcessGLAccountValidationRetailReqABCSImpl
- SyncCurrencyExchangeListPeopleSoftReqABCSImpl
- SyncCurrencyExchangeListRetailProvProvABCSImpl
- SyncPaymentTermListPeopleSoftReqABCSImpl
- SyncSupplierPartyListPeopleSoftReqABCSImpl
- SyncSupplierPartyListRetailProvProvABCSImpl
- UpdatePaymentTermPeopleSoftReqABCSImpl
- UpdatePaymentTermRetailProvProvABCSImpl
- UpdateSupplierPartyListPeopleSoftReqABCSImpl
- UpdateSupplierPartyRetailProvProvABCSImpl

For more information on how to configure these services, see the Retail Merchandising Integration Pack for PeopleSoft Enterprise Financials: Financial Operations Control - Implementation Guide.

9.6.4 Creating Sequence Rights to PeopleSoft Database User (Required)

The ODI processes create a database sequence in PeopleSoft database. Ensure that the database user for the PeopleSoft database has appropriate rights to create sequences.

9.6.5 Verifying the Database Connection (Optional)

To verify the database connection:

1. Open ODI Topology Manager.

2. Expand **Oracle** in **Physical Architecture** tab.
3. Select **AIA SCHEMA DS**.
4. Right click and select **Edit** to open AIA SCHEMA DS.
5. Click **Test**.

   This opens Test Connection window.
6. Click **Test**.

   If successful connection message does not pop up, verify the connection information in the **Definitions** and **JDBC** tabs.
7. Repeat steps 1 to 6 for the following data sources:
   - ORACLE RETAIL DS
   - PEOPLESOFT DS

   Note: If PeopleSoft is under IBM DB2, the data source will be under IBM DB2 UDB technology.

9.6.6 Setting Up and Exporting Domain Value Mappings (Required)

You need to set up and export Domain Value Maps (DVM) to complete the install process.

To set up and export DVMs:

1. Set up all DVMs for the PIP.
2. Export the following DVMs:
   - BUSINESS_UNIT
   - CURRENCY_CODE
   - CHARTOFACCOUNTS_GLELEMENT
3. During installation, AIA Installer prompts you to specify a folder in your local file system to store the exported DVMs files. Export the following DVMs to that folder:
   - BUSINESS_UNIT
   - CURRENCY_CODE DVMs
4. And export the CHARTOFACCOUNTS_GLELEMENT DVM to the <AIA_HOME>/services/core/BulkDataProcess/OracleRetailToPeopleSoft/Financials/CreateRetailViewSQL folder.

For more information on how to set up DVMs, see Process Integration for Oracle Retail to PeopleSoft Financials 3.1 - Implementation Guide, "Describing Domain Value Maps", Implementing Oracle Retail to PeopleSoft Financials Process Integration Pack.

9.6.7 Setting Up ORGANIZATION_ID XREF (Required)

For information about how to set up the ORGANIZATION_ID XREF, see Oracle Retail Merchandising Integration Pack for PeopleSoft Enterprise Financials - Implementation Guide, "Implementing Oracle Retail Merchandising Integration Pack for PeopleSoft Enterprise Financials," Setting Up Cross-References for Oracle Retail IDs and PeopleSoft Entities.

9.7 Verifying Financials Ops Control: Oracle Retail - PSFT PIP Installation

To verify the Financials Ops Control: Oracle Retail - PSFT PIP installation, perform the following tasks:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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>\logs\Install\PIPS\<PIPName>Install-${current.time}.log to verify that the PIP is successfully installed.
2. Verify that you can see the following Financials Ops Control: Oracle Retail - PSFT PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.
   - ChartOfAccountsEBS
   - CreatePaymentTermPeopleSoftReqABCSImpl
   - CreatePaymentTermRetailProvABCSImpl
   - CreateSupplierPartyPeopleSoftReqABCSImpl
   - CreateSupplierPartyRetailProvABCSImpl
   - CurrencyExchangeEBS
   - CurrencyExchangePeopleSoftJMSConsumer
   - PaymentTermEBS
   - PaymentTermPeopleSoftJMSConsumer
   - ProcessGLAccountValidationPeopleSoftProvABCSImpl
   - ProcessGLAccountValidationRetailReqABCSImpl
   - SupplierPartyEBS
   - SupplierPartyPeopleSoftJMSConsumer
   - SyncCurrencyExchangeListPeopleSoftReqABCSImpl
   - SyncCurrencyExchangeListRetailProvJMSProducer
   - SyncPaymentTermListPeopleSoftReqABCSImpl
   - SyncPaymentTermListRetailProvABCSImpl
   - SyncSupplierPartyListPeopleSoftReqABCSImpl
   - SyncSupplierPartyListRetailProvABCSImpl
   - UpdatePaymentTermPeopleSoftReqABCSImpl
   - UpdatePaymentTermRetailProvABCSImpl
   - UpdateSupplierPartyPeopleSoftReqABCSImpl

- UpdateSupplierPartyRetailProvABCSImpl

3. Confirm that the Financials Ops Control: Oracle Retail - PSFT PIP queues (JMS) are installed.
   a. To verify the JMS Queues, connect to the WLS Console http:<host>:<port>/console.
   b. Navigate to **Services**, **Messaging**, **JMS Modules**, **AIAJMSModule**.
   c. Drill down and verify that the following queues exist:

      AIA_PeopleSoftCurrencyExchangeJMSQueue.

      AIA_PeopleSoftPaymentTermsJMSQueue.

      AIA_PeopleSoftSupplierPartyJMSQueue.

4. Confirm that the DrillBackForward web service is installed:
   a. Navigate to the Application Server Console: *http://<server name>:<port number>/em*.
   b. Select the Application Server Control option.
   c. Log in with the server administrator user name. To find this information, contact the system administrator.
   d. Navigate to **Farm_SOA_Domain**, **Application Deployments**.
   e. Verify that in the **Web Services** tab, the **GetDrillBackForwardURL** web service is available with port name **DrillBackForwardURLService**.

5. Confirm that necessary configuration properties exist.
   a. Navigate to the AIA home location. For example, *http://<host_name>:<port>/AIA/faces/home.jspx*
   b. Navigate to **Setup**, **Configuration** and check for the following configuration properties:

      CreatePaymentTermPeopleSoftReqABCSImpl

      CreatePaymentTermRetailProvABCSImpl

      CreateSupplierPartyPeopleSoftReqABCSImpl

      CreateSupplierPartyRetailProvABCSImpl

      ProcessGLAccountValidationPeopleSoftProvABCSImpl

      ProcessGLAccountValidationRetailReqABCSImpl

      SyncCurrencyExchangeListPeopleSoftReqABCSImpl

      SyncCurrencyExchangeListRetailProvABCSImpl

      SyncPaymentTermListPeopleSoftReqABCSImpl

      SyncPaymentTermListRetailProvABCSImpl

      SyncSupplierPartyListPeopleSoftReqABCSImpl

      SyncSupplierPartyListRetailProvABCSImpl

      UpdatePaymentTermPeopleSoftReqABCSImpl

      UpdatePaymentTermRetailProvABCSImpl

      UpdateSupplierPartyPeopleSoftReqABCSImpl

UpdateSupplierPartyRetailProvABCSImpl

6. Verify Integration Scenarios.
   a. Navigate to the AIA home location. For example, *http://<host_name>:<port>/AIA/faces/home.jspx*
   b. Find Project Lifecycle Workbench and click **Go**.
   c. On the AIA Project Lifecycle Workbench page, click **Search**.
   d. Click the link in the **Bill Of Material** column to view the following artifacts included in this PIP.
   - Create PaymentTerm PeopleSoft Requestor
   - Create PaymentTerm Retail Provider
   - Create SupplierParty PeopleSoft Requestor
   - Create SupplierParty Retail Provider
   - Process GL Account Validation PeopleSoft Provider
   - Process GL Account Validation Retail Requestor
   - ProcessGLAccountValidationRetailReqABCSImpl
   - Sync CurrencyExchangeList PeopleSoft Requestor
   - Sync CurrencyExchangeList Retail Provider
   - Sync PaymentTerm PeopleSoft Requestor
   - Sync PaymentTerm Retail Provider
   - Sync SupplierParty PeopleSoft Requestor
   - Sync SupplierParty Retail Provider
   - Update PaymentTerm PeopleSoft Requestor
   - Update PaymentTerm Retail Provider
   - Update SupplierParty PeopleSoft Requestor
   - Update SupplierParty Retail Provider
7. Verify that 32 ABCSs have been published.
   a. Navigate to the AIA home location. For example, *http://<host_name>:<port>/AIA/faces/home.jspx*
   b. Navigate to **Service Repository**, type `%ABCS%` in the **Service Name** field and click **Search**.
   - CreatePaymentTermPeopleSoftReqABCSImpl
   - CreatePaymentTermPeopleSoftReqABCSImplExt
   - CreatePaymentTermRetailProvABCSImpl
   - CreatePaymentTermRetailProvABCSImplExt
   - CreateSupplierPartyPeopleSoftReqABCSImpl
   - CreateSupplierPartyPeopleSoftReqABCSImplExt
   - CreateSupplierPartyRetailProvABCSImpl
   - CreateSupplierPartyRetailProvABCSImplExt

- ProcessGLAccountValidationPeopleSoftProvABCSImpl
- ProcessGLAccountValidationPeopleSoftProvABCSImplExt
- ProcessGLAccountValidationRetailReqABCSImpl
- ProcessGLAccountValidationRetailReqABCSImplExt
- SyncCurrencyExchangeListPeopleSoftReqABCSImpl
- SyncCurrencyExchangeListPeopleSoftReqABCSImplExt
- SyncCurrencyExchangeListRetailProvABCSImpl
- SyncCurrencyExchangeListRetailProvABCSImplExt
- SyncPaymentTermListPeopleSoftReqABCSImpl
- SyncPaymentTermListPeopleSoftReqABCSImplExt
- SyncPaymentTermListRetailProvABCSImpl
- SyncPaymentTermListRetailProvABCSImplExt
- SyncSupplierPartyListPeopleSoftReqABCSImpl
- SyncSupplierPartyListPeopleSoftReqABCSImplExt
- SyncSupplierPartyListRetailProvABCSImpl
- SyncSupplierPartyListRetailProvABCSImplExt
- UpdatePaymentTermPeopleSoftReqABCSImpl
- UpdatePaymentTermPeopleSoftReqABCSImplExt
- UpdatePaymentTermRetailProvABCSImpl
- UpdatePaymentTermRetailProvABCSImplExt
- UpdateSupplierPartyPeopleSoftReqABCSImpl
- UpdateSupplierPartyPeopleSoftReqABCSImplExt
- UpdateSupplierPartyRetailProvABCSImpl
- UpdateSupplierPartyRetailProvABCSImplExt

9.7.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment

a. Navigate back to **Policies** screen and find the client policy

b. Click the number in **Attachment Count** column.

This opens **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 9–14 Service Policy Attachments for Financials Ops Control: Oracle Retail - PSFT PIP

Composite	Service Policy
ProcessGLAccountValidationRetailReqABCSImpl	oracle/no_authentication_service_policy

Table 9–15 No Authentication Client Policy Attachments for Financials Ops Control: Oracle Retail - PSFT PIP

Composite	Reference	Client Policy
ProcessGLAccountValidationPeopleSoftProvABCSImpl	GL_CHARTFIELD	oracle/no_authentication_client_policy
CreatePaymentTermRetailProvABCSImpl	PayTermService	oracle/no_authentication_client_policy
UpdatePaymentTermRetailProvABCSImpl	PayTermService	oracle/no_authentication_client_policy
SyncPaymentTermListRetailProvABCSImpl	PayTermService	oracle/no_authentication_client_policy
CreateSupplierPartyRetailProvABCSImpl	SupplierService	oracle/no_authentication_client_policy
UpdateSupplierPartyRetailProvABCSImpl	SupplierService	oracle/no_authentication_client_policy
SyncSupplierPartyListRetailProvABCSImpl	SupplierService	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 (11.1.1.4.0)*, "Working with Security."

9.7.2 ODI Topology

1. Verify the following connections are accurate in the **Physical Architecture** tab.

a. Launch ODI Topology Manager and navigate to **Physical Architecture** tab.

b. Expand **XML** node and double click **AIA Configuration PropertiesDS**.

c. Click **JDBC** tab and check for the connection *<AIAHome>/aia_instances/<AIAInstance Name>/AIAMetaData/config/AIAConfigurationProperties.xml*

d. Similarly find the following data servers based on the technology and artifact name. The first row in the table is used as an example.

Table 9–16 Data Servers

Artifact imported	Connection	Technology
CONN_ AIAConfigurationProperties DS.xml	<AIAHome>/aia_ instances/<AIAInstance Name>/AIAMetaData/confi g/AIAConfigurationProperti es.xml	XML
CONN_AIASCHEMADS.xml	AIA database connection	Oracle
CONN_ BusinessUnitGLDS.xml	Path to exported DVM BUSINESS_UNIT.xml	XML
CONN_ CurrencyCodeDS.xml	Path to exported DVM CURRENCY_CODE.xml	XML
CONN_ ExchangeRateTypeDS.xml	Path to exported DVM CURRENCYEXCHANGE_ CONVERSIONTYPECODE.x ml	XML
CONN_ ORACLERETAILDS.xml	Oracle Retail database connection	Oracle
CONN_PEOPLESOFTDS.xml **	PeopleSoft database connection	Oracle
CONN_PSFT_DB2_DS **	PeopleSoft database connection	IBM DB2 UDB

2. Verify the context in the **Contexts** tab.

If PeopleSoft system is under an Oracle database, the name of the artifact imported is **RETL_TO_PSFT.xml**. If the PeopleSoft system is under an IBM DB2 database, then the context imported is **CONT_RETL_TO_PSFT_DB2.xml**.

a. Launch ODI Topology Manager and navigate to **Contexts** tab.

b. Double click **RETL_TO_PSFT** and navigate to **Schema** tab.

The following table describes the imported artifacts:

Table 9–17 Imported Artifacts

Artifact imported	Description
CONT_RETL_TO_PSFT.xml Or CONT_RETL_TO_PSFT_DB2.xml	Holds the correlation between logical schemas and physical ones. Verify the following schemas associations are set up. You may see more schemas than the ones here. The PIP processes ignore these additional schemas. AIAConfigSchema BusinessUnitGL Currency ESB_XREF Exchange Rate PSFT_DB2_LogicalSchema PeopleSoft Retail

Note: If PeopleSoft system is connected to an Oracle database, associate the Logical schema **PeopleSoft** with Physical schema. If it is under IBM DB2, then associate **PSFT_DB2_Logial Schema** to a Physical schema.

3. Verify the following **Logical Data Servers** are imported in the **Logical Architecture** tab.
   a. Launch ODI Topology Manager and navigate to **Logical Architecture** tab.
   b. Expand **XML** node and double click **AIA Config Schema**.
   c. Click **Definition** tab check whether the **RETL_TO_PSFT** context has **AIA Configuration** properties DS physical schema associated.
   d. Similarly find the following logical data servers based on the technology and artifact name. The first row in the table is used as an example.

Table 9–18 Logical Data Servers

Artifact imported	Description	Technology
LSC_AIAConfigSchema.xml	<AIA_HOME>/config/AIAConfigurationProperties.xml	XML
LSC_BusinessUnitGL.xml	Exported DVM BUSINESS_UNIT.xml	XML
LSC_Currency.xml	Exported DVM CURRENCY_CODE.xml	XML
LSC_ESB_XREF.xml	AIA database connection	Oracle
LSC_ExchangeRate.xml	Exported DVM CURRENCYEXCHANGE_CONVERSIONTYPECODE.xml	XML
LSC_Retail.xml	Oracle Retail database	Oracle

Table 9–18 (Cont.) Logical Data Servers

Artifact imported	Description	Technology
LSC_Peoplesoft.xml	PeopleSoft database for Oracle database	Oracle
LSC_PSFT_DB2_ LogicalSchema.xml	PeopleSoft database for IBM DB2 database	IBM DB2 UDB

9.7.3 ODI Designer

1. Launch ODI Designer and verify the following models are imported in the **Models** tab.
   - Oracle Retail To PeopleSoft
   - RMS To PeopleSoft Accounting Entry
   - ReIM To PSFT Invoice
   - ReIM To PeopleSoft Accounting Entry
2. Launch ODI Designer and verify the following projects are imported in the **Projects** tab.
   - RMS To PSFT Acct Entry Project
   - ReIM To PSFT Acct Entry Project
   - ReIM To PeopleSoft Invoice Project
3. Verify the path to the AIAConfigurationProperties.xml is correctly set up for **RMS to PSFT AcctEntry** project.
   a. Expand **RMS to PSFT AcctEntry** and **Procedures**.
   b. Double-click the **Load AIA Configuration Properties XML** procedure.
   c. Double-click the command **LoadAIAConfigXML** in the **Details** tab.
   d. Under **Definition** tab, click **Command** on **Source** sub tab.
   e. Verify the path to **AIAConfigurationProperties.xml** is accurate.
4. Using the same procedure verify the path for the following Exported DVMs:
   - Load Business Unit GL DVM XML
   - Load Currency Code DVM XML

   a. Verify the path to the **AIAConfigurationProperties.xml** is correctly set up for **ReIM To PSFT Acct Entry** project.
   b. Verify the path to the Exported DVMs:

      Load Business Unit GL DVM XML

      Load Currency Code DVM XML

   c. Verify the path to the **AIAConfigurationProperties.xml** is correctly set up for **ReIM To PeopleSoft Invoice** project
   d. Verify the path to the Exported DVMs:

      Load Business Unit GL DVM XML

      Load Currency Code DVM XML

5. Verify the WSDL URL for **ErrorNotification** step name is accurate for **AIAAsyncErrorHandlingBPELProcess** in the **Load RMS To PSFT Acct Entry Package**:
   a. Launch ODI Designer.
   b. Go to **Projects** tab.
   c. Double click **Load RMS To PSFT Acct Entry Package**.
   d. Select the **Diagram** tab.
   e. Click the **Error Notification** icon.
   f. In the **Properties** frame under **General** tab verify the WSDL URL user and password are accurate
   g. Verify the WSDL URL for **ErrorNotification** step name is accurate for **AIAAsyncErrorHandlingBPELProcess** in the **Load ReIM to PSFT AcctEntry PKG**
   h. Verify the WSDL URL for **OdiInvokeWebService** 5-step name is accurate for **AIAAsyncErrorHandlingBPELProcess** in the **Load RETL Invoices To PSFT Pkg**.

9.7.4 Error Messages During Financials Ops Control: Oracle Retail - PSFT PIP Installation

When installing the Financials Ops Control: Oracle Retail - PSFT PIP, you might encounter the following errors:

- Failed to execute: Create user xxxxx identified by yyyyy
- Unique Constraint Violation

9.7.4.1 Failed to execute: Create user xxxxx identified by yyyyy

AIA Installer displays this error message in the log file if the install script attempts to create a database username for an existing database user name. You can ignore this message and continue with the install process.

The installer displays the following message when it finds an identical database user name:

Example 9–3 Identical Database User Name Mesasge

```
ODIInstall_CreateDBSchemaWorkRep:
[echo] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
[echo] Creating ODI Work Repository DB User: xxxxx
[sql] Executing commands
[sql] Failed to execute: create user xxxxx identified by yyyyy
[sql] java.sql.SQLException: ORA-01920: user name 'xxxxx' conflicts with another
user or role name
[sql] 1 of 2 SQL statements executed successfully
[echo] Done creating DB User for ODI Work Repository: xxxxx
[echo] ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

Note: xxxxx refers to the database username provided for ODI Work Repository and yyyyy is the password.

9.7.4.2 Unique Constraint Violation

AIA Installer displays this error message in the log file if the ODI data source **xxxxx** already exists in the ODI master repository. The ODI data source is defined in Topology in the Physical Architecture tab. This error occurs when the Financials Ops Control: Oracle Retail - PSFT PIP is reinstalled.

The installer displays the following message when it finds an identical ODI data source:

Example 9–4 Identical ODI Data Source Message

```
[echo] - Importing CONN_xxxxx.xml
[exec] OracleDI: Starting Command : OdiImportObject -FILE_NAME=<AIA_
HOME>/PIPS/Core/DIS/RetailToPSFTFin/ODI Master Repository/CONN_xxxxx.xml -IMPORT_
MODE=SYNONYM_INSERT_UPDATE ...
[exec] java.sql.SQLException: ORA-00001: unique constraint (SNPM.PK_MTXT) violated
```

This error will not stop the install process. The process will import the remaining ODI PIP artifacts into the ODI; however, it is important to verify the accuracy of the connections for these ODI data sources. To resolve this issue, verify that the connections and associated logical schemas in the ODI topology are accurate.

For PIP implementation, see *Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandise Operations Management and PeopleSoft Enterprise Financials 3.1 - Implementation Guide*.

9.8 Undeploying the Financials Ops Control: Oracle Retail - PeopleSoft PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 9–19 Undeployment command for the Financials Ops Control: Oracle Retail - PeopleSoft PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsUndeployDP.xml -l <AIA_ HOME>/pips/OracleRetailToPeopleSoftFinancials/DeploymentPlans/OracleRetailToPeopleSoftFinancialsUndeployDP.log`

Table 9–19 (Cont.) Undeployment command for the Financials Ops Control: Oracle Retail - PeopleSoft PIP

Platform	Undeployment Command
Microsoft Windows	`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\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsUndeployDP.xml -l <AIA_ HOME>\pips\OracleRetailToPeopleSoftFinancials\DeploymentPlans\OracleRetailToPeopleSoftFinancialsUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

10

Installing the LSP Financial Mgmt: OTM - EBS PIP

This chapter discusses how to install the LSP Financial Mgmt: OTM - EBS PIP. This chapter includes the following sections:

- Section 10.1, "Software Requirements"
- Section 10.2, "Configuration Wizard Interview"
- Section 10.3, "Performing Pre-Installation Configurations"
- Section 10.4, "Installing the LSP Financial Mgmt: OTM - EBS PIP"
- Section 10.5, "Performing Post-Installation Configurations"
- Section 10.6, "Verifying Installation"
- Section 10.7, "Undeploying the LSP Financial Mgmt: OTM - EBS PIP"

10.1 Software Requirements

The LSP Financial Mgmt: OTM - EBS PIP requires:

- Oracle E-Business Suite R12.1.2
- Oracle Transportation Management 6.1.1.

10.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the LSP Financial Mgmt: OTM - EBS PIP. Enter the details of the LSP Financial Mgmt: OTM - EBS PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

10.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 10–1 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. Example: `server1.company.com`. The Admin Host Name is _____

Table 10–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Admin Port	This is the port number on which the Weblogic Admin server is started. To find this value contact the WebLogic administrator. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

10.2.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 10–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____ _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____ _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____ _____

Table 10–2 (Cont.) Oracle E-Business Suite Server Details Screen Fields

Field	Description
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is ___ _____
E-Business suite version	This is the version of the E-Business Suite Application. Valid value is `12.1.2`. Other versions are not supported in the 3.1 release.

10.2.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 10–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

10.2.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 10–4 Oracle OTM Server Details Screen Fields

Field	Description
OTM Hostname	This is the machine name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Hostname is _____
OTM Http Port	This value is the OTM Web Service port. For example: `8024`. To find the value, contact your administrator. OTM Port is _____
OTM User Name	This is the username for OTM application. To find the value, contact your administrator. OTM Username is _____
OTM Password	This is the password for OTM application. For example: `welcome`. To find the value, contact your administrator. OTM Password is _____
OTM System Name	This is the system name for the OTM application. To find the value, contact your administrator. For example: `http://<server name.us.oracle.com>:<port_no>` OTM System Name is _____
OTM System Version	This is the version of the OTM Application like 5.5,6.0. OTM System Version is _____

10.2.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 10–5 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	This value is typically the machine name. For example: `example1.corp.oracle.com`. To find the value, contact your database administrator. OTM Database Host is _____

Table 10–5 (Cont.) Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Port	This is the Database port for OTM application. For example: `8024`. To find the value, contact your database administrator. OTM Database Port is _____
OTM Database Username	This is the Database Username for OTM application. For example: `apps`. To find the value, contact your database administrator. OTM Database Username is _____
OTM Database Password	This is the password for Database Password user. For example: `apps`. To find the value, contact your database administrator. OTM Database Password is _____
OTM Database System ID (SID)	This is the Database SID for OTM application. For example: `orcl`. To find the value, contact your database administrator. OTM Database SID is _____

10.3 Performing Pre-Installation Configurations

Before you install the LSP Financial Mgmt: OTM - EBS PIP, ensure that "USERS" tablespace exists in the AIA database. You need to create one if you do not find one.

To create a tablespace with the name "USERS" in the AIA database run the oracle database create tablespace command.

Sample command to create the tablespace looks `create tablespace users datafile '[your file name]' size [file size]`

For more details on creating tablespace refer to Oracle DBA guide.

10.4 Installing the LSP Financial Mgmt: OTM - EBS PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

10.4.1 Install the LSP Financial Mgmt: OTM - EBS PIP

To install the LSP Financial Mgmt: OTM - EBS PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 10–6 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

10.4.2 Configure the LSP Financial Mgmt: OTM - EBS PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the LSP Financial Mgmt: OTM - EBS PIP. Keep the completed worksheets of the LSP Financial Mgmt: OTM - EBS PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the LSP Financial Mgmt: OTM - EBS PIP:

1. Navigate to *<MiddleWare_HOME>/user_projects/domains/<soa_domain_name>/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.

4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **LSP Financial Mgmt: OTM - EBS PIP**
8. Click **Next**.

10.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

10.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your E-Business Suite Server in the **E-Business Suite Server Details** screen.
2. Click **Next.**

10.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your E-Business Suite Database in the **E-Business Suite Database Details** screen.
2. Click **Next.**

10.4.2.4 Specify Oracle OTM Server Details

To specify Oracle OTM Server details:

1. Enter server information about Oracle OTM in the **Oracle OTM Server Details** screen.
2. Click **Next.**

10.4.2.5 Specify Oracle OTM Database Details

To specify Oracle OTM Database details:

1. Enter information about your Oracle OTM Database in the **Oracle OTM Database Details** screen.
2. Click **Next.**

10.4.2.6 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 10.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.

4. Click **Finish** to close the configuration wizard.

10.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

10.4.4 Deploying the LSP Financial Mgmt: OTM - EBS PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

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 10–7 Deployment commands for the LSP Financial Mgmt: OTM - EBS PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	ant -f <AIA_ HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_ HOME>/aia_instances/<aia_ instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_ HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancialsDP.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancialsSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancialsConditionalPolicy.xml -l <AIA_ HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancials.log
Microsoft Windows	ant -f <AIA_ HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_ HOME>\aia_instances\<aia_ instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_ HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancialsDP.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancialsSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancialsConditionalPolicy.xml -l <AIA_ HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancials.log

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

10.5 Performing Post-Installation Configurations

You can edit existing csf-key or create new csf-key and configure flows to use the modified/new csf-key.

To edit existing csf-key or create new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em]
2. Right click **WebLogic Domain** and navigate to **<your_domain>**, **Security**, and select **Credentials**.
3. Expand **oracle.wsm.security** and click **OTM_DOMAIN**.
4. Edit existing csf-key credentials or create new csf-key with new credentials.

To configure flows to use new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em].
2. Click the process name which is invoking OTM Webservice based on the flow.
3. Click the corresponding **Reference** under **Services and References** section. (use the security exceptions table in the Section 10.6.1, "Validating Security Policies" section to find the References)
4. Click the **Policies** and select **oracle/wss_http_token_client_policy**.
5. Update the **csf-key** value under **Security Configuration Details** tab and save the changes.

10.6 Verifying Installation

To verify the LSP Financial Mgmt: OTM - EBS PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 JMS Queues are created:
   a. Navigate to the WLS Console: http:// name>:<port number>/console/

b. Log in with the server admin user name. For access details, contact the system administrator

c. Navigate to Services -> Messaging -> JMS Modules -> AIAJMSModule for the following Queue Names

- AIA_EbizSupplierPartyJMSQueue
- AIA_EbizCurrencyExchangeJMSQueue

3. Confirm that the LSP Financial Mgmt: OTM - EBS PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- AccountingEntryEBS
- AccountingEntryResponseEBS
- CreateAccountingEntryListEbizDBAdapter
- CreateAccountingEntryListEbizProvABCSImpl
- CreateAccountingEntryListLogisticsAQConsumer
- CreateAccountingEntryListLogisticsReqABCSImpl
- CreateInvoiceListEbizAppsAdapter
- CreateInvoiceListEbizProvABCSImpl
- CreateInvoiceListLogisticsAQConsumer
- CreateInvoiceListLogisticsReqABCSImpl
- CreatePayableInvoiceListEbizDBAdapter
- CreatePayableInvoiceListEbizProvABCSImpl
- CreatePayableInvoiceListLogisticsAQConsumer
- CreatePayableInvoiceListLogisticsReqABCSImpl
- CurrencyExchangeEBS
- CurrencyExchangeListEbizJMSConsumer
- CurrencyExchangeListEbizJMSProducer
- CurrencyExchangeResponseEBS
- CustomerPartyEBSV2
- CustomerPartyResponseEBSV2
- InitialLoadSupplierPartyListEbizAdapter
- InvoiceEBS
- InvoiceResponseEBS
- MergeAccountEbizEventConsumer
- MergeAccountEbizReqABCSImpl
- MergeCustomerPartyListLogisticsProvABCSImpl
- MergePartyEbizEventConsumer

- MergePartyEbizReqABCSImpl
- PayableInvoiceEBS
- PayableInvoiceResponseEBS
- QueryCustomerPartyEbizAdapter
- QueryCustomerPartyListEbizCreateAdapter
- QueryCustomerPartyListEbizUpdateAdapter
- QueryMergeAccountEbizAdapter
- QueryMergeOrgCustEbizAdapter
- QueryPartyMergeEbizAdapter
- SupplierPartyEBS
- SupplierPartyListEbizJMSConsumer
- SupplierPartyListEbizJMSProducer
- SupplierPartyResponseEBS
- SyncCurrencyExchangeListEbizAdapter
- SyncCurrencyExchangeListEbizReqABCSImpl
- SyncCurrencyExchangeListLogisticsProvABCSImpl
- SyncCustomerPartyListEbizAdapter
- SyncCustomerPartyListEbizEventConsumer
- SyncCustomerPartyListEbizReqABCSImpl
- SyncCustomerPartyListLogisticsProvABCSImpl
- SyncSupplierPartyListEbizAdapter
- SyncSupplierPartyListEbizReqABCSImpl
- SyncSupplierPartyListLogisticsProvABCSImpl
- TransformAppContextEbizService
- UpdateAccountingEntryListEbizXref
- UpdateInvoiceListEbizXref
- UpdatePayableInvoiceListEbizXref

4. LSP Financial Mgmt: OTM - EBS PIP and LSP Order Mgmt: OTM - EBS - Siebel CRM PIP use the same CustomerPartyEBSV2. When you install the Fleet PIPs, if LSP Financial Mgmt: OTM - EBS PIP is installed after LSP Order Mgmt: OTM - EBS - Siebel CRM PIP, routing rules pertaining to Customer flow of LSP Financial Mgmt: OTM - EBS PIP do not appear on the EM console for CustomerPartyEBSV2. In this case, routing rules pertaining to the *SyncCustomerPartyListLogisticsProvABCSImpl* and *MergeCustomerPartyListLogisticsProvABCSImpl* of Customer flow of LSP Financial Mgmt: OTM - EBS PIP have to be added manually to the CustomerPartyEBSV2.
5. LSP Driver Mgmt: OTM - EBS PIP and LSP Financial Mgmt: OTM - EBS PIP use same PayableInvoiceEBS. When you install Fleet PIPs, if LSP Financial Mgmt: OTM - EBS PIP is installed after LSP Driver Mgmt: OTM - EBS PIP, routing rules pertaining to Payable Invoice flow of LSP Financial Mgmt: OTM - EBS PIP do not appear in EM console for PayableInvoiceEBS. In this case, routing rules pertaining

to CreatePayableInvoiceListEbizProvABCSImpl of PayableInvoice flow of LSP Financial Mgmt: OTM - EBS PIP have to be added manually to PayableInvoiceEBS and deployed on server.

For more information on manual deployment of routing rules, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Creating Routing Rules"*.

10.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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.

Note: The default csf-key for all the flows is **OTM_DOMAIN**. This is created in server automatically as a part of PIP installation.

Table 10–8 Service Policy Attachments for LSP Financial Mgmt: OTM - EBS PIP

Composite	Service	Service Policy
MergeCustomerPartyListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncCurrencyExchangeListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncCustomerPartyListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncSupplierPartyListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy

Table 10–9 Wss Http Token Client Policy Attachments for LSP Financial Mgmt: OTM - EBS PIP

Composite	Reference	Client Policy
MergeCustomerPartyListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncCurrencyExchangeListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncCustomerPartyListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncSupplierPartyListLogisticsProvABCSImpl	SyncSupplierPartyListLogisticsProvABCSImplService	oracle/wss_http_token_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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Financial Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1 - Implementation Guide*.

10.7 Undeploying the LSP Financial Mgmt: OTM - EBS PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 10–10 Undeployment command for the LSP Financial Mgmt: OTM - EBS PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant Uninstall -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancialsUndeployDP.xml -l <AIA_HOME>/pips/FleetFinancials/DeploymentPlans/FleetFinancialsUndeployDP.log`

Table 10–10 (Cont.) Undeployment command for the LSP Financial Mgmt: OTM - EBS

Platform	Undeployment Command
Microsoft Windows	`ant Uninstall -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancialsUndeployDP.xml -l <AIA_HOME>\pips\FleetFinancials\DeploymentPlans\FleetFinancialsUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

11

Installing the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

This chapter discusses how to install the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP. This chapter includes the following sections:

- Section 11.1, "Software Requirements"
- Section 11.2, "Configuration Wizard Interview"
- Section 11.3, "Performing Pre-Installation Configurations"
- Section 11.4, "Installing the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"
- Section 11.5, "Performing Post-Installation Configurations"
- Section 11.6, "Verifying Installation"
- Section 11.7, "Undeploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"

11.1 Software Requirements

The LSP Order Mgmt: OTM - EBS - Siebel CRM PIP requires:

- Siebel CRM FP 8.0.0.8 QF# 2801.
- Oracle E-Business Suite 12.1.2
- Oracle Transportation Management 6.1.1.

11.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP. Enter the details of the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

11.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 11–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

11.2.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 11–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____ _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____ _____

Table 11–2 (Cont.) Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____ _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is ___ _____
E-Business suite version	This is the version of the E-Business Suite Application. Valid value is `12.1.2`. Other versions are not supported in the 3.1 release.

11.2.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 11–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____

Table 11–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

11.2.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 11–4 Oracle OTM Server Details Screen Fields

Field	Description
OTM Hostname	This is the machine name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Hostname is _____
OTM Http Port	This value is the OTM Web Service port. For example: `8024`. To find the value, contact your administrator. OTM Port is _____
OTM User Name	This is the username for OTM application. To find the value, contact your administrator. OTM Username is _____
OTM Password	This is the password for OTM application. For example: `welcome`. To find the value, contact your administrator. OTM Password is _____
OTM System Name	This is the system name for the OTM application. To find the value, contact your administrator. For example: `http://<server name.us.oracle.com>:<port_no>` OTM System Name is _____
OTM System Version	This is the version of the OTM Application like 5.5,6.0. OTM System Version is _____

11.2.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 11–5 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	This value is typically the machine name. For example: `example1.corp.oracle.com`. To find the value, contact your database administrator. OTM Database Host is _____
OTM Database Port	This is the Database port for OTM application. For example: `8024`. To find the value, contact your database administrator. OTM Database Port is _____
OTM Database Username	This is the Database Username for OTM application. For example: `apps`. To find the value, contact your database administrator. OTM Database Username is _____
OTM Database Password	This is the password for Database Password user. For example: `apps`. To find the value, contact your database administrator. OTM Database Password is _____
OTM Database System ID (SID)	This is the Database SID for OTM application. For example: `orcl`. To find the value, contact your database administrator. OTM Database SID is _____

11.2.6 Siebel CRM Server Details Screen

Use this screen to enter details related to your Siebel CRM server instance.

The screen contains the following fields:

Table 11–6 Siebel CRM Server Details Screen Fields

Field	Description
Siebel HTTP Hostname	This is a machine name of the Siebel host. For example: `sdcp1953i054.corp.siebel.com`. To find the value, contact your administrator. Siebel HTTP Hostname is _____
Siebel HTTP Port	This value is the Siebel application port. For example: `80`. To find the value, contact your administrator. Siebel HTTP Port is _____
Siebel EAI Application User	The Siebel application user is used for making EAI web service calls. For example: `sadmin`. To find the value, contact your administrator. Siebel EAI Application User is _____

Table 11–6 (Cont.) Siebel CRM Server Details Screen Fields

Field	Description
Siebel EAI Application Password	This is the password for the EAI user. For example: `sadmin`. To find the value, contact your administrator. Siebel EAI Application Password is _____ _____
Siebel Enterprise Server Name	This is the Siebel server name. For example: `rws602rems.us.oracle.com`. To find the value, contact your administrator. Siebel Enterprise Server Name is _____ _____
Siebel version	This is the version of the Siebel CRM Version. Valid value is `8.0.0.8` Other versions are not supported in the 3.1 release.

11.2.7 Siebel CRM Database Details Screen

Use this screen to enter details related to your Siebel CRM database instance.

The screen contains the following fields:

Table 11–7 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the machine name. For example: `server1.oracle.com`. To find the value, contact your database administrator. Siebel Database Host is _____ _____
Siebel Database Port	This is the Siebel database port. For example: `1521`. To find the value, contact your database administrator. Siebel Database Port is _____ _____
Siebel Database Username	Specifies a database user that has access to loading the EIM tables Siebel. To find this value, contact the database administrator. Example: `ora12345` Siebel Database Username is _____ _____
Siebel Database Password	This is the Siebel Database Password. For example: `ora07103`. To find the value, contact your database administrator. Siebel Database Password is _____ _____
Siebel Database SID	This is the Siebel database system ID. For example: `qa7a`. To find the value, contact your database administrator. Siebel Database SID is _____ _____

11.3 Performing Pre-Installation Configurations

Before you install the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP, ensure that "USERS" tablespace exists in the AIA database. You need to create one if you do not find one.

To create a tablespace with the name "USERS" in the AIA database run the oracle database create tablespace command.

Sample command to create the tablespace looks `create tablespace users datafile '[your file name]' size [file size]`

For more details on creating tablespace refer to Oracle DBA guide.

11.4 Installing the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

11.4.1 Install the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

To install the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 11–8 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

11.4.2 Configure the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP. Keep the completed worksheets of the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP:

1. Navigate to *<MiddleWare_HOME>/user_projects/domains/<soa_domain_name>/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **LSP Order Mgmt: OTM - EBS - Siebel CRM PIP**
8. Click **Next**.

11.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

11.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your E-Business Suite Server in the **E-Business Suite Server Details** screen.

2. Click **Next.**

11.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your E-Business Suite Database in the **E-Business Suite Database** Details screen.
2. Click **Next.**

11.4.2.4 Specify Oracle OTM Server Details

To specify Oracle OTM Server details:

1. Enter server information about Oracle OTM in the **Oracle OTM Server Details** screen.
2. Click **Next.**

11.4.2.5 Specify Oracle OTM Database Details

To specify Oracle OTM Database details:

1. Enter information about your Oracle OTM Database in the **Oracle OTM Database Details** screen.
2. Click **Next.**

11.4.2.6 Specify Siebel CRM Server Details

To specify Siebel CRM Server details:

1. Enter information about your Siebel CRM application in the **Application Details - Siebel CRM** screen.
2. Click **Next.**

11.4.2.7 Specify Siebel CRM Database Details

To specify Siebel CRM Database details:

1. Enter information about your Siebel CRM database in the **Siebel CRM Database Details** screen.
2. Click **Next.**

11.4.2.8 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 11.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

11.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

11.4.4 Deploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 11–9 Deployment commands for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagementDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagementSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagementConditionalPolicy.xml -l <AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagement.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagementDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagementSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagementConditionalPolicy.xml -l <AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagement.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these

supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

11.5 Performing Post-Installation Configurations

You can edit existing csf-key or create new csf-key and configure flows to use the modified/new csf-key.

To edit existing csf-key or create new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em]
2. Right click **WebLogic Domain** and navigate to **<your_domain>**, **Security**, and select **Credentials**.
3. Expand **oracle.wsm.security** and click **OTM_DOMAIN**.
4. Edit existing csf-key credentials or create new csf-key with new credentials.

To configure flows to use new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em].
2. Click the process name which is invoking OTM Webservice based on the flow.
3. Click the corresponding **Reference** under **Services and References** section. (use the security exceptions table in the Section 11.6.1, "Validating Security Policies" section to find the References)
4. Click the **Policies** and select **oracle/wss_http_token_client_policy**.
5. Update the **csf-key** value under **Security Configuration Details** tab and save the changes.

11.6 Verifying Installation

To verify the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 JMS Queues are created:
   a. Log in to the WLS Console: http:// name>:<port number>/console/
   b. Log in with the server admin user name. For access details, contact the system administrator
   c. Navigate to **Services**, **Messaging**, **JMS Modules**, **AIAJMSModule** and verify that the following queue names exist.

- AIA_SiebelItemJMSQueueV1
- AIA_SiebelTransportationSalesOrderJMSQueue
- AIA_SiebelTransportStopJMSQ
- AIA_CustomerPartyJMSTV1

3. Confirm that the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP services were installed.
   a. Log in 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- CustomerPartyEBSV2
- CustomerPartyResponseEBSV2
- ItemEBSV2
- ItemResponseEBSV2
- QueryResponsibilityEbizAdapter
- QueryTransportationSalesOrderItineraryListLogisticsProvABCSImpl
- QueryTransportationSalesOrderItineraryListSiebelReqABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncCustomerPartyEbizJMSConsumerV1
- SyncCustomerPartyJMSProducerV1
- SyncCustomerPartyListEbizAdapter
- SyncCustomerPartyListEbizProvABCSImpl
- SyncCustomerPartyListLogisticsProvABCSImpl
- SyncCustomerPartyListPersonEbizAdapter
- SyncCustomerPartyLogisticsJMSConsumerV1
- SyncCustomerSiebelEventAggregator
- SyncItemListLogisticsProvABCSImpl
- SyncItemListSiebelReqABCSImpl
- SyncItemSiebelConsumer
- SyncTransportationSalesOrderListLogisticsProvABCSImpl
- SyncTransportationSalesOrderListSiebelReqABCSImpl
- SyncTransportationStopAddressSiebelAggregatorAdapterConsumer
- SyncTransportationStopAggregatorRoutingService

- SyncTransportationStopContactSiebelAggregatorAdapterConsumer
- SyncTransportationStopListLogisticsProvABCSImpl
- SyncTransportationStopListSiebelReqABCSImpl
- SyncTransportationStopSiebelJMSConsumer
- TransformAppContextEbizService
- TransformAppContextSiebelService
- TransportationSalesOrderEBS
- TransportationSalesOrderListSiebelJMSConsumer
- TransportationSalesOrderResponseEBS
- TransportationStopEBS
- TransportationStopResponseEBS
- UpdatePlannedShipmentLogisticsAQConsumer
- UpdateTransportationSalesOrderListLogisticsReqABCSImpl
- UpdateTransportationSalesOrderListSiebelProvABCSImpl

4. LSP Order Mgmt: OTM - EBS - Siebel CRM PIP and LSP Financial Mgmt: OTM - EBS PIP use the same CustomerPartyEBSV2. When you install the Fleet PIPs, if LSP Order Mgmt: OTM - EBS - Siebel CRM PIP is installed after LSP Financial Mgmt: OTM - EBS PIP, routing rules pertaining to Customer flow of LSP Order Mgmt: OTM - EBS - Siebel CRM PIP do not appear on the EM console for CustomerPartyEBSV2. In this case, routing rules pertaining to the *SyncCustomerPartyListLogisticsJMSProducerV1* of Customer flow of LSP Order Mgmt: OTM - EBS - Siebel CRM PIP have to be added manually to the CustomerPartyEBSV2

   For more information on manual deployment of routing rules, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Creating Routing Rules"*.

11.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment

   a. Navigate back to **Policies** screen and find the client policy

   b. Click the number in **Attachment Count** column.

      This opens **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 11–10 Wss Http Token Service Policy Attachments for LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Composite	Service	Service Policy
SyncItemListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncTransportationSalesOrderListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncTransportationStopListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncCustomerPartyListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy

Table 11–11 No Authentication Service Policy Attachments for LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Composite	Service	Service Policy
QueryTransportationSalesOrderItineraryListSiebelReqABCSImpl	QueryTransportationSalesOrderItineraryListSiebelReqABCSImpl	oracle/no_authentication_service_policy
SyncCustomerSiebelEventAggregator	Client	oracle/no_authentication_service_policy

Table 11–12 Wss Http Token Client Policy Attachments for LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Composite	Reference	Client Policy
QueryTransportationSalesOrderItineraryListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncItemListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncTransportationSalesOrderListLogisticsProvABCSImpl	SyncTransportationSalesOrderListLogisticsProvABCSImplService	oracle/wss_http_token_client_policy
SyncTransportationStopListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncCustomerPartyListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy

Table 11–13 No Authentication Client Policy Attachments for LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Composite	Reference	Client Policy
SyncTransportationSalesOrderListSiebelReqABCSImpl	SWIOrderUpsertRef	oracle/no_authentication_client_policy
UpdateTransportationSalesOrderListSiebelProvABCSImpl	SiebelWebService	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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Order Management Integration Pack for Oracle Transportation Management, Oracle E-Business Suite, and Siebel CRM 3.1 - Implementation Guide*.

11.7 Undeploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 11–14 Undeployment command for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant Uninstall -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagementUndeployDP.xml -l <AIA_HOME>/pips/FleetOrderManagement/DeploymentPlans/FleetOrderManagementUndeployDP.log`
Microsoft Windows	`ant Uninstall -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagementUndeployDP.xml -l <AIA_HOME>\pips\FleetOrderManagement\DeploymentPlans\FleetOrderManagementUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

12

Installing the LSP Driver Mgmt: OTM - EBS PIP

This chapter discusses how to install the LSP Driver Mgmt: OTM - EBS PIP. This chapter includes the following sections:

- Section 12.1, "Software Requirements"
- Section 12.2, "Configuration Wizard Interview"
- Section 12.4, "Installing the LSP Driver Mgmt: OTM - EBS PIP"
- Section 12.5, "Performing Post-Installation Configurations"
- Section 12.6, "Verifying Installation"
- Section 12.7, "Undeploying the LSP Driver Mgmt: OTM - EBS PIP"

12.1 Software Requirements

The LSP Driver Mgmt: OTM - EBS PIP requires

- Oracle E-Business Suite 12.1.2
- Oracle Transportation Management 6.1.1 with the following patches:

Table 12–1 OTM Patches

Bug Number	ARU	Description
9729851	12760753	end date field is ignored on driver integration, inbound/outbound
9681898	12601650	AGENT EVENT "WORK INVOICE - STATUS CHANGED" NOT TRIGGERED
9693785	12623553	JAVA NULL POINTER RECEIVED ON GENERATING 2ND WORK INVOICE WITH SPECIAL SERVICE

12.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the LSP Driver Mgmt: OTM - EBS PIP. Enter the details of the LSP

Driver Mgmt: OTM - EBS PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

12.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 12–2 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

12.2.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 12–3 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____ _____

Table 12–3 (Cont.) Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____ _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____ _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____ _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of E-Business Suite Server. For example: `server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is ___ _____
E-Business suite version	This is the version of the E-Business Suite Application. Valid value is `12.1.2`. Other versions are not supported in the 3.1 release.

12.2.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 12–4 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____ _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____ _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____ _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____ _____

Table 12–4 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____ _____
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

12.2.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 12–5 Oracle OTM Server Details Screen Fields

Field	Description
OTM Hostname	This is the machine name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Hostname is _____ _____
OTM Http Port	This value is the OTM Web Service port. For example: `8024`. To find the value, contact your administrator. OTM Port is _____ ____
OTM User Name	This is the username for OTM application. To find the value, contact your administrator. OTM Username is _____ _____
OTM Password	This is the password for OTM application. For example: `welcome`. To find the value, contact your administrator. OTM Password is _____ _____
OTM System Name	This is the system name for the OTM application. To find the value, contact your administrator. For example: `http://<server name.us.oracle.com>:<port_no>` OTM System Name is _____
OTM System Version	This is the version of the OTM Application like 5.5,6.0. OTM System Version is _____

12.2.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 12–6 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	This value is typically the machine name. For example: `example1.corp.oracle.com`. To find the value, contact your database administrator. OTM Database Host is _____
OTM Database Port	This is the Database port for OTM application. For example: `8024`. To find the value, contact your database administrator. OTM Database Port is _____
OTM Database Username	This is the Database Username for OTM application. For example: `apps`. To find the value, contact your database administrator. OTM Database Username is _____
OTM Database Password	This is the password for Database Password user. For example: `apps`. To find the value, contact your database administrator. OTM Database Password is _____
OTM Database System ID (SID)	This is the Database SID for OTM application. For example: `orcl`. To find the value, contact your database administrator. OTM Database SID is _____

12.3 Performing Pre-Installation Configurations

Before you install the LSP Driver Mgmt: OTM - EBS PIP, ensure that "USERS" tablespace exists in the AIA database. You need to create one if you do not find one.

To create a tablespace with the name "USERS" in the AIA database run the oracle database create tablespace command.

Sample command to create the tablespace looks `create tablespace users datafile '[your file name]' size [file size]`

For more details on creating tablespace refer to Oracle DBA guide.

12.4 Installing the LSP Driver Mgmt: OTM - EBS PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

12.4.1 Install the LSP Driver Mgmt: OTM - EBS PIP

To install the LSP Driver Mgmt: OTM - EBS PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 12–7 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

12.4.2 Configure the LSP Driver Mgmt: OTM - EBS PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the LSP Driver Mgmt: OTM - EBS PIP. Keep the completed worksheets of the LSP Driver Mgmt: OTM - EBS PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the LSP Driver Mgmt: OTM - EBS PIP:

1. Navigate to *<MiddleWare_HOME>/user_projects/domains/<soa_domain_name>/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **LSP Driver Mgmt: OTM - EBS PIP**
8. Click **Next**.

12.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

12.4.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your E-Business Suite Server in the **E-Business Suite Server Details** screen.
2. Click **Next.**

12.4.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your E-Business Suite Database in the **E-Business Suite Database Details** screen.
2. Click **Next.**

12.4.2.4 Specify Oracle OTM Server Details

To specify Oracle OTM Server details:

1. Enter server information about Oracle OTM in the **Oracle OTM Server Details** screen.
2. Click **Next.**

12.4.2.5 Specify Oracle OTM Database Details

To specify Oracle OTM Database details:

1. Enter information about your Oracle OTM Database in the **Oracle OTM Database Details** screen.
2. Click **Next.**

12.4.2.6 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 12.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

12.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

12.4.4 Deploying the LSP Driver Mgmt: OTM - EBS PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 12–8 Deployment commands for the LSP Driver Mgmt: OTM - EBS PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementConditionalPolicy.xml -l <AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagement.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementDP.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementConditionalPolicy.xml -l <AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagement.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

12.5 Performing Post-Installation Configurations

This section discusses post installation configurations for LSP Driver Mgmt: OTM - EBS PIP. The section includes:

- Section 12.5.1, "Configuring Time Zone Property"
- Section 12.5.2, "Migrating from AIA 2.x to AIA 3.1"
- Section 12.5.3, "Creating New csf-key and Configuring Flows to Use csf-key"

12.5.1 Configuring Time Zone Property

To configure time zone property:

1. Open <AIA_INSTANCE>/AIAMetaData/config/AIAConfigurationProperties.xml
2. Navigate to property EBIZ_01.SERVER_TIMEZONE under the module 'Ebiz'
3. Set it to appropriate value, for example PST or IST etc.

   Possible values:

   PST, IST etc. (OR)

   -07:00, +05:30 etc.
4. Update MetaData.
5. Reload from the AIA page (http://< server name >: < port number >/AIA).

12.5.2 Migrating from AIA 2.x to AIA 3.1

If you are migrating from an earlier version to 3.1, then ensure the following:

The last number value for the sequence DR_CAL_EVENT_ID created in "<AIA_INSTANCE>_AIA" database user in the 3.1 version should be set to the same value as in the 10g version. In 10g this sequence will be available in the "aia" database user. This can be done using the following commands:

1. Execute `select dr_cal_event_id.nextval from Dual` in the 10g database.
2. Execute `alter sequence dr_cal_event_id increment by <nextval from 10g>` in the 11g database

12.5.3 Creating New csf-key and Configuring Flows to Use csf-key

You can edit existing csf-key or create new csf-key and configure flows to use the modified/new csf-key.

To edit existing csf-key or create new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em]
2. Right click **WebLogic Domain** and navigate to **<your_domain>**, **Security**, and select **Credentials**.
3. Expand **oracle.wsm.security** and click **OTM_DOMAIN**.
4. Edit existing csf-key credentials or create new csf-key with new credentials.

To configure flows to use new csf-key:

1. Login into em console. [http://<server_host>:<server_port>/em].
2. Click the process name which is invoking OTM Webservice based on the flow.
3. Click the corresponding **Reference** under **Services and References** section. (use the security exceptions table in the Section 12.6.1, "Validating Security Policies" section to find the References)
4. Click the **Policies** and select **oracle/wss_http_token_client_policy**.
5. Update the **csf-key** value under **Security Configuration Details** tab and save the changes.

12.6 Verifying Installation

To verify the LSP Driver Mgmt: OTM - EBS PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 JMS Queues are created:

a. Log in to the WLS Console: http:// name>:<port number>/console/

b. Log in with the server admin user name. For access details, contact the system administrator

c. Navigate to **Services**, **Messaging**, **JMS Modules**, **AIAJMSModule** and verify that the following queue names exist.

- AIA_EbizTrainingCalendarJMSQueue
- AIA_EbizAbsenceCalendarJMSQueue
- AIA_EbizWorkerJMSQueue
- AIA_EbizLocationJMSQueue

3. Confirm that the LSP Driver Mgmt: OTM - EBS PIP services were 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- CalculateDriverIncentiveCompensationListEbizAdapter
- CalculateDriverIncentiveCompensationListEbizProvABCSImpl
- CalculateDriverIncentiveCompensationListLogisticsAQConsumer
- CalculateDriverIncentiveCompensationListLogisticsReqABCSImpl
- CreateAbsenceAttendanceEbizAdapter
- CreateDelegateBookingEbizAdapter
- CreateLocationListEbizAdapter
- DeleteAbsenceAttendanceEbizAdapter
- DeleteDelegateBookingEbizAdapter
- LocationEBS
- LocationResponseEBS
- PayableInvoiceEBS
- PayableInvoiceResponseEBS
- ResourceCalendarEntryEBS
- ResourceCalendarEntryResponseEBS
- SyncAbsenceCalendarListEbizJMSConsumer
- SyncAbsenceCalendarListEbizJMSProducer
- SyncAbsenceCalendarListEbizReqABCSImpl
- SyncAbsenceCalendarListInitialLoadDBAdapter
- SyncAbsenceCalendarListProcess
- SyncLocationListEbizGetABM
- SyncLocationListEbizJMSConsumer
- SyncLocationListEbizJMSProducer
- SyncLocationListEbizReqABCSImpl

- SyncLocationListInitialLoadDBAdapter
- SyncLocationListLogisticsProvABCSImpl
- SyncResourceCalendarEntryListLogisticsProvABCSImpl
- SyncTrainingCalendarListEbizJMSConsumer
- SyncTrainingCalendarListEbizJMSProducer
- SyncTrainingCalendarListEbizReqABCSImpl
- SyncTrainingCalendarListInitialLoadDBAdapter
- SyncTrainingCalendarListProcess
- SyncWorkerListBPELAggregator
- SyncWorkerListEbizAggrEventConsumer
- SyncWorkerListEbizEventAggregator
- SyncWorkerListEbizGroupEventAdapter
- SyncWorkerListEbizInitialLoad
- SyncWorkerListEbizJMSConsumer
- SyncWorkerListEbizJMSProducer
- SyncWorkerListEbizReqABCSImpl
- SyncWorkerListLogisticsProvABCSImpl
- UpdateAbsenceAttendanceEbizAdapter
- UpdateClassScheduleEbizAdapter
- UpdateDelegateBookingEbizAdapter
- UpdateLocationEbizAdapter
- UpdateLocationListEbizAdapter
- UpdateTrainingCenterandLocationEbizAdapter
- WorkerEBS
- WorkerResponseEBS

4. LSP Financial Mgmt: OTM - EBS PIP and LSP Driver Mgmt: OTM - EBS PIP use same PayableInvoiceEBS and PayableInvoiceResponseEBS. When you install Fleet PIPs, if LSP Driver Mgmt: OTM - EBS PIP is installed after LSP Financial Mgmt: OTM - EBS PIP, routing rules pertaining to WorkInvoice flow of LSP Driver Mgmt: OTM - EBS PIP do not appear in em console for PayableInvoiceEBS and PayableInvoiceResponseEBS. In this case, routing rules pertaining to CalculateDriverIncentiveCompensationListEbizProvABCSImpl of WorkInvoice flow of LSP Driver Mgmt: OTM - EBS PIP have to be added manually to PayableInvoiceEBS and routing rules pertaining to CalculateDriverIncentiveCompensationListLogisticsReqABCSImpl of WorkInvoice flow of LSP Driver Mgmt: OTM - EBS PIP have to be added manually to PayableInvoiceResponseEBS and deployed on server.

   For more information on manual deployment of routing rules, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Creating Routing Rules"*.

12.6.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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.

Note: The default csf-key for all the flows is OTM_DOMAIN. This is created in server automatically as a part of PIP installation.

Table 12–9 Service Policy Attachments for LSP Driver Mgmt: OTM - EBS PIP

Composite	Service	Service Policy
SyncLocationListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncResourceCalendarEntryListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy
SyncWorkerListLogisticsProvABCSImpl	TransmissionReport	oracle/wss_http_token_service_policy

Table 12–10 Wss Http Token Client Policy Attachments for LSP Driver Mgmt: OTM - EBS PIP

Composite	Reference	Client Policy
CalculateDriverIncentiveCompensationListLogisticsReqABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncLocationListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy

Table 12–10 (Cont.) Wss Http Token Client Policy Attachments for LSP Driver Mgmt: OTM - EBS PIP

Composite	Reference	Client Policy
SyncResourceCalendarEntryListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_client_policy
SyncWorkerListLogisticsProvABCSImpl	LogisticsWebService	oracle/wss_http_token_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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Driver Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1 - Implementation Guide*.

12.7 Undeploying the LSP Driver Mgmt: OTM - EBS PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 12–11 Undeployment command for the LSP Driver Mgmt: OTM - EBS PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant Uninstall -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementUndeployDP.xml -l <AIA_HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementUndeployDP.log`
Microsoft Windows	`ant Uninstall -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPlan=<AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementUndeployDP.xml -l <AIA_HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementUndeployDP.log`

3. Restart the SOA server.

4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

13

Installing VCP Base Pack Integration

This chapter discusses how to install VCP Base Pack integration. This chapter includes the following sections:

- Section 13.1, "Software Requirements"
- Section 13.3, "Performing Pre-Installation Configurations"
- Section 13.2, "Configuration Wizard Interview"
- Section 13.4, "Installing VCP Base Pack Integration"
- Section 13.5, "Performing Post-Installation Configurations"
- Section 13.7, "Verifying Installation"
- Section 13.8, "Undeploying VCP Base Pack Integration"

> **Note for PeopleSoft Users:** This information also covers the integration between PeopleSoft and Demantra. Unless specifically mentioned, references to JD Edwards or JDE should be interpreted as also referring to PeopleSoft.

13.1 Software Requirements

VCP Base Pack Integration requires:

- Oracle Data Integrator 11.1.1.3
- Oracle Value Chain Planning Suite Release 12.1.3.x
- Oracle Demantra 7.3.0.1
- ESU for SAR number 8925532 applied to JD Edwards EnterpriseOne 9.0 (for JDE users)
- PeopleSoft 9.1 (for PeopleSoft users)

For more information, see the Oracle Data Integrator Implementation Guide.

13.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of VCP Base Pack Integration. Enter the details of VCP Base Pack Integration screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

13.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 13–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

13.2.2 JD Edwards EnterpriseOne Inbound Path

Table 13–2 JD Edwards EnterpriseOne Inbound Path Screen

Field	Description
JD Edwards EnterpriseOne Inbound Path	The location where files from ODI/APS into JD Edwards are placed. This location can be on the same machine or on a shared folder on a remote machine. JD Edwards EnterpriseOne Inbound Path is _ _____

13.2.3 JD Edwards EnterpriseOne Outbound Path

Table 13–3 JD Edwards EnterpriseOne Outbound Path Screen

Field	Description

Table 13–3 (Cont.) JD Edwards EnterpriseOne Outbound Path Screen

JD Edwards EnterpriseOne Outbound Path	The location where files from JDE into ODI/APS are placed. This location can be on the same machine or on a shared folder on a remote machine. JD Edwards EnterpriseOne Outbound Path is _____

For more information on directory structures, see the ODI Directory Structure section of the Oracle Value Chain Planning Integration Base Pack 3.1 - Implementation Guide.

13.2.4 Demantra Inbound Path

Table 13–4 Demantra Inbound Path Screen

Field	Description
Demantra Inbound Path	The location where files from APS into Demantra are placed. This location can be on the same machine or on a shared folder on a remote machine. Demantra Inbound Path is _____ _____

13.2.5 Demantra Outbound Path

Table 13–5 Demantra Outbound Path Screen

Field	Description
Demantra Outbound Path	The location where files from Demantra to APS are placed. This location can be on the same machine or on a shared folder on a remote machine. Demantra Outbound Path is _____ _____

13.2.6 APS Database Connection Details

Table 13–6 APS Database Connection Details

Field	Description
APS Database Host	This value is typically the machine name. To determine this value, contact the database administrator. Example: `server1.oracle.com` APS Database Host is _____ _____
APS Database Port	To determine this value, contact the database administrator. Example:`1521` APS Database Port is _____ _____
APS Database Username	This parameter must be set to: `msc`

Table 13–6 (Cont.) APS Database Connection Details

APS Database Password	To determine this value, contact the database administrator. APS Database Password is _____ _____
APS Database SID	To determine this value, contact the database administrator. Example: `orcl`. APS Database SID is _____ _____

13.2.7 APS Inbound Path

Table 13–7 APS Inbound Path

Field	Description
APS Inbound Path	The location where files from ODI into APS are placed. This location can be on the same machine or on a shared folder on a remote machine. The location must be the same as the machine where the APS database is hosted. APS Inbound Path is _____ _____

13.2.8 APS Outbound Path

Table 13–8 APS Outbound Path

Field	Description
APS Outbound Path	The location where files from APS into ODI are placed. This location can be on the same machine or on a shared folder on a remote machine. The location must be the same as the machine where the APS database is hosted. APS Outbound Path is _____ _____

13.2.9 Oracle Data Integrator Access Details Screen

Use this screen to enter details to access Oracle Data Integrator.

The screen contains the following fields:

Table 13–9 Oracle Data Integrator Access Details Screen Fields

Field	Description
Path to Oracle Data Integrator	Provide the path to the ODI HOME. To find this value, contact your administrator. Example: `D:\Oracle\Middleware\Oracle_ODI1\oracledi\agent` Path to Oracle Data Integrator is _____ _____

Table 13–9 (Cont.) Oracle Data Integrator Access Details Screen Fields

Field	Description
Path for Exported DVMs	Enter the path to directory to export Domain Value Mappings (DVM). Path for Exported DVM is _____
ODI Username	To find this value, contact your administrator. Example: `SUPERVISOR`. ODI User is _____
ODI Password	To find this value, contact your administrator. Example: `SUNOPSIS` ODI Password is _____

13.2.10 Oracle Data Integrator Master Repository Details

You must set up an ODI Master Repository prior to installing the VCP Base Pack Integration. This master repository must be created in an Oracle database.

The install process appends PIP artifacts into this master repository.

Use this screen to enter details to access the Oracle Data Integrator Master Repository. If the Master repository is already configured field values in the screen will be populated automatically.

The screen contains the following fields:

Table 13–10 Oracle Data Integrator Master Repository Details

Field	Description
ODI Master Repository Database Host	To find this value, contact your database administrator. Example: `sdc600089seems.compay.com` ODI Master Database Host _____
ODI Master Repository Database Port	To find this value, contact your database administrator. Example: `1521` ODI Master Database Port is_____
ODI Master Repository Database Username	To find this value, contact your database administrator. Example: `master`. This field is also known as the Master Repository Schema Name. ODI Master Database Username is_____
ODI Master Repository Database Password	To find this value, contact your database administrator. Example: `welcome1` ODI Master Database Password is_____
ODI Master Repository Database SID	To find this value, contact your database administrator. Example: `Demantra` ODI Master Database SID is_____

13.2.11 Oracle Data Integrator Work Repository Details

The install process imports the VCP Base Pack Integration into an ODI Work repository. You can provide an existing ODI Work Repository or provide an empty one. It is recommended that you use an empty repository.

Use this screen to enter details related to the ODI Work Repository. If Master repository is already configured field values in the screen will be populated automatically.

The screen contains the following fields:

Table 13–11 Oracle Data Integrator Work Repository Details

Field	Description
ODI Work Repository Name	Enter the name you give to the ODI Work Repository for PIP Artifacts. Example: `WORK`*(case sensitive)* ODI Work Repository Name is _____ _____
ODI Work Repository ID	To find this value, contact your database administrator. Example: `300` ODI Work Repository Password is_____ _____
ODI Work Repository Database Host	To find this value, contact your database administrator. Example: `localhost` Database Host is_____ _____
ODI Work Repository Database Port	To find this value, contact your database administrator. Example: `1521` Database Port is_____ _____
ODI Work Repository Database Username	To find this value, contact your database administrator. Example: `master`. This field is also known as the Master Repository Schema Name. Database Username is_____ _____
ODI Work Repository Database Password	To find this value, contact your database administrator. Example: `welcome1` Database Password is_____ _____
ODI Work Repository Database SID	To find this value, contact your database administrator. Example: `XE` Database SID is_____ _____

13.3 Performing Pre-Installation Configurations

Configure the following before installing VCP Base Pack Integration:

Table 13–12 Pre-Installation Configurations

Item	Details

Table 13–12 (Cont.) Pre-Installation Configurations

Database Schemas	Create database schemas. Database schema must be available for the ODI master repository. Grant this schema appropriate permissions and privileges. If you want a separate work repository for the VCP Base Pack Integration, create a second database schema for this purpose. Grant this schema appropriate permissions and privileges.
Environment variables	Set the %ODI_JAVA_HOME% to point to the JDK 1.6 installation directory. For example, %ODI_JAVA_HOME%=D:\Oracle\Middleware\Oracle_ODI1\jrockit-jdk1.6.0_17. The path to JAVA_HOME should not contain spaces, such as "C:\Program Files\Java\jdk".
ODI Repositories	Create a master repository and connect it to the database schema. Create a work repository and connect it to the database schema.

13.4 Installing VCP Base Pack Integration

This section discusses the integration installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your integration using the configuration wizard.
3. Deploy the integration to the Fusion Middleware server.

13.4.1 Install VCP Base Pack Integration

To install VCP Base Pack Integration:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 13–13 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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>`

Table 13–13 (Cont.) Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Microsoft Windows	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

13.4.2 Configure VCP Base Pack Integration

The screens that appear prompt you to enter the data that is required for successful configuration of VCP Base Pack Integration. Keep the completed worksheets of VCP Base Pack Integration screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure VCP Base Pack Integration:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select **VCP Base Pack Integration**
8. Click **Next**.

13.4.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

13.4.2.2 Specify JD Edwards EnterpriseOne Inbound Path

To specify the location of JD Edwards EnterpriseOne Inbound Path:

1. Enter information about the location of your JD Edwards EnterpriseOne inbound files in the **JD Edwards EnterpriseOne Inbound Path** screen.
2. Click **Next**.

13.4.2.3 Specify JD Edwards EnterpriseOne Outbound Path

To specify the location of JD Edwards EnterpriseOne Outbound Path:

1. Enter information about the location of your JD Edwards EnterpriseOne outbound files in the **JD Edwards EnterpriseOne Outbound Path** screen.
2. Click **Next**.

13.4.2.4 Specify Demantra Inbound Path

To specify the location of Demantra inbound files details:

1. Enter information about the location of your Demantra inbound files details in the **Demantra Inbound Path** screen.
2. Click **Next**.

13.4.2.5 Specify Demantra Outbound Path

To specify the location of Demantra outbound files details:

1. Enter information about the location of your Demantra outbound files details in the **Demantra Outbound Path** screen.
2. Click **Next.**

13.4.2.6 Specify APS Database Connection Details

To specify Advanced Planning and Scheduling Connection details:

1. Enter information about your APS Database Connection instance in the **APS Database Connection Details** screen.
2. Click **Next.**

13.4.2.7 Specify APS Inbound Path

To specify APS inbound files location:

1. Enter information about your APS inbound files location in the **APS Inbound Path** Screen.
2. Click **Next.**

13.4.2.8 Specify APS Outbound Path

To specify APS outbound files location:

1. Enter information about your APS outbound files location in the **APS Outbound Path** Screen.

2. Click **Next.**

13.4.2.9 Specify Oracle Data Integrator Access Details

To specify Oracle Data Integrator Access details:

1. Enter information about your Oracle Data Integrator Access installation in the **Oracle Data Integrator Access Information** screens.

   Oracle Data Integration Access Information is captured in two screens. Enter the following information in the screens.

2. Specify **ODI Home**.
3. Click **Next.**
4. Enter **ODI User** and **ODI Password**.
5. Specify the **Path to JDK**.
6. Click **Next.**

13.4.2.10 Oracle Data Integrator Path for Exported DVMs Details

The path for Exported DVMs is not applicable for Oracle Value Chain Planning Integration Pack for JD Edwards EnterpriseOne.

13.4.2.11 Specify Oracle Data Integrator Master Repository Details

To specify Oracle Data Integrator Master Repository details:

1. Enter information about your Oracle Data Integrator Master Repository installation in the **Oracle Data Integrator Master Repository** screen.
2. Click **Next.**

13.4.2.12 Specify Oracle Data Integrator Work Repository Details

To specify Oracle Data Integrator Work Repository details:

1. Enter information about your Oracle Data Integrator Work Repository installation in the **Oracle Data Integrator Work Repository** screen.
2. Click **Next.**

13.4.2.13 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 13.4.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

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2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

13.4.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

13.4.4 Deploying the VCP Base Pack Integration

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 13–14 Deployment commands for the VCP Base Pack Integration

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/VCPJDE/DeploymentPlans/VCPJDEDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <AIA_HOME>/pips/VCPJDE/DeploymentPlans/VCPJDE.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\VCPJDE\DeploymentPlans\VCPJDEDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -l <AIA_HOME>\pips\VCPJDE\DeploymentPlans\VCPJDE.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

13.5 Performing Post-Installation Configurations

This section discusses post-installation configurations for the VCP Base Pack Integration. This section includes:

- Section 13.5.1, "Configuring Environment Variables"

- Section 13.5.2, "Verifying Directory Structure"
- Section 13.5.3, "Launching the VCP Base Pack Integration Agent"
- Section 13.5.4, "Enabling AIA Error Handling (Optional)"

13.5.1 Configuring Environment Variables

Configure the following environment variable:

Table 13–15 Environment Variable Configuration

Environment Variable	Description
ODI_BIN_DIR	The location of the ODI program. The recommended location is as follows: `<ODIHOME>/bin`
VCPJDE_PIP_HOME	The location of the PIP program. The recommended location is as follows: `<PIP_HOME>/VCPJDE`

For more information, see the Configuring *ODI Variables* section in the Oracle Value Chain Planning Integration Base Pack 3.1 - Implementation Guide.

13.5.2 Verifying Directory Structure

Before using VCP Base Pack Integration, a system administrator must verify if the directories exist as per the directory structure.

For more information, see the *Setting Up VCP Base Pack Integration* chapter in the Oracle Value Chain Planning Integration Base Pack 3.1 - Implementation Guide.

13.5.3 Launching the VCP Base Pack Integration Agent

Before running a scenario from ODI or a collection from APS, ensure that the VCP Base Pack Java EE agent is running. The name of this agent is OracleDIAgent.

To ensure that OracleDIAgent is running properly:

1. Log in to the ODI Topology Manager.
2. Create a new agent called **OracleDIAgent**.
3. In the **Host** field, enter the name of the host where the Java EE agent will be deployed.

   This is the same host where the Weblogic server runs.
4. In the **Port** field, enter the port number of the Admin server in Weblogic server.
5. Install and configure the Java EE agent.

   For more information on installing and deploying the Java EE agent, refer to the "Installing Oracle Data Integrator" chapter in the *Oracle Fusion Middleware Installation Guide for Oracle Data Integrator 11g*. Follow the installation instructions for Java EE.
6. Return to the **OracleDIAgent** screen in the **Topology Manager** and click the **Test** button.

13.5.4 Enabling AIA Error Handling (Optional)

The procedure for logging these error messages is provided in each package of the PIP with a six step process grouped together in each package. These steps are:

1. PVV_ERR_MSG: This step stores the error message.
2. PVV_ERR_STEP: This step stores the step name where scenario has failed.
3. PVV_ERROR_FLOW_INSTANCE_ID: This step stores the flow name where scenario has failed.
4. PVV_ERROR_SOURCE_ID: This step stores the source from where data is coming.
5. ODI Invoke Web Service: This step invokes the web service. All credential like WSDL url, user name, password etc are to be provided here.
6. Failure: This step is to purposefully fail the Scenario (APS is dependent upon the actual failure and success of Scenario to show if a request is successful or errored out).

To enable AIA error handling:

1. Open the package.
2. Go to **diagram** tab and select **ko** step from toolbar.
3. Connect **InsertScenName Step** to **PVV_ERR_MSG** using the **ko** step.

   Only exception to this step is in **Synchronize_XML** package where **ko** step is to be inserted between **Synchronize_Xml** and **OdiInvokeWebService1**.
4. Select the step **OdiInvokeWebService1** and view the properties.
5. Change **WSDL URL**, **HTTP User**, and **HTTP Password** values.
6. Repeat steps 1 through 5 in each of the package.
7. Regenerate all the scenarios.

After completing these steps, the AIA error logging can be viewed using BPEL-Console.

13.6 Post Installation Setup Tasks

DTD files are located at <AIA_HOME>\services\core\BulkDataProcess\VCPJDE\VCP\ODI\Oracle\V1\DTD

1. Copy Base.dtd, BeginningInventory.dtd, Customer.dtd, Distribution.dtd, Manufacturing.dtd, PurchaseOrders.dtd, SalesOrders.dtd, Supplier.dtd, TimeSeries.dtd, TransferOrders.dtd and WorkOrders.dtd to the directory where the XML files from JDE E1 or PeopleSoft will be placed; the JDE E1 Output directory.
2. Copy DeploymentPlan.dtd, DetailedProductionPlan.dtd, MasterProductionPlan.dtd, PurchasePlan.dtd to the APS Output Directory.

Note: You can check the **Physical Topology** under **Files** and **XML** to see the directory names where the DTDs should be available.

13.7 Verifying Installation

To verify the VCP Base Pack Integration installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 VCP Base Pack Integration artifacts are installed:
   a. Open the ODI Designer Console.
   b. Verify that you can see the **E1APSProject** project.
   c. Verify that you can see the following models in the model tab:

      APSToE1ModelFolder

      DemantraToE1ModelFolder

      E1ToAPSModelFolder

      E1ToDemantraModelFolder
   d. Open the ODI Topology Manager console.
   e. Verify that you can see the following Physical Architecture:

      File

      APSFlatFileInDS

      DemantraFlatFileOutDS

      DemantraFlatFileInDS

      E1FlatFileInDS

      E1FlatFileOutDS

      FILE_GENERIC

      LogFileDS

      Datatypes

      Actions

      Caution: If you are reinstalling, do not delete the FILE_GENERIC connection. This is a default ODI connection.

      Oracle

      ASCPDS

      WorkRepoDS

      Datatypes

      Actions

XML

E1BaseDS

E1BeginningInventoryDS

E1CustomerDS

E1DeploymentPlanDS

E1DetailedProductionPlanDS

E1DistributionDS

E1ManufacturingDS

E1MasterProductionPlanDS

E1PurchaseOrdersDS

E1PurchasePlanDS

E1SalesOrderDS

E1SupplierDS

E1TimeSeriesDS

E1TransferOrderDS

E1WorkOrdersDS

XML_GEO_DIM

Datatypes

Actions

Caution: If you are reinstalling, do not delete the XML_GEO_DIM connection. This is a default ODI connection.

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f. Verify that you can see the following Logical Architecture:

File

APSFLATFILEIN

DEMANTRAFLATFILEIN

DEMANTRAFLATFILEOUT

E1FLATFILEIN

E1FLATFILEOUT

FILE_DEMO_SRC

LOGFILE

Datatypes

Actions

Caution: If you are reinstalling, do not delete the FILE_DEMO_SRC logical connection. This is a default ODI connection.

Oracle

ASCP

WORKREPO

Datatypes

Actions

Xml

E1BASE

E1BEGINVENTORY

E1CUSTOMER

E1DEPLOYMENTPLAN

E1DETAILEDPRODPLAN

E1DISTRIBUTION

E1MANUFACTURING

E1MASTERPRODPLAN

E1PURCHASEORDERS

E1PURCHASEPLAN

E1SALESORDERS

E1SUPPLIER

E1TIMESERIES

E1TRANSFERORDERS

E1WORKORDERS

XML_DEMO_GEO

Datatypes

Actions

Caution: If you are reinstalling, do not delete the XML_DEMO_GEO logical connection. This is a default ODI connection.

13.7.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment

a. Navigate back to **Policies** screen and find the client policy

b. Click the number in **Attachment Count** column.

This opens **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 13–16 Service Policy Attachments for VCP Base Pack Integration

Composite	Service Policy
AIAAsyncErrorHandlingBPELProcess	aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON

Table 13–17 No Authentication Client Policy Attachments for VCP Base Pack Integration

Composite	Reference	Client Policy
AIAAsyncErrorHandlingBPELProcess	OdiInvokeWebService 1	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 (11.1.1.4.0)*, "Working with Security."

For PIP Implementation, see *Oracle Value Chain Planning Integration Base Pack 3.1 - Implementation Guide*.

13.8 Undeploying VCP Base Pack Integration

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 13–18 Undeployment command for VCP Base Pack Integration

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/VCPJDE/DeploymentPlans/VCPJDEUndeployDP.xml -l <AIA_HOME>/pips/VCPJDE/DeploymentPlans/VCPJDEUndeployDP.log`
Microsoft Windows	`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\VCPJDE\DeploymentPlans\VCPJDEUndeployDP.xml -l <AIA_HOME>\pips\VCPJDE\DeploymentPlans\VCPJDEUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

14

Installing the Project Portfolio Management: Primavera P6-EBS Projects PIP

This chapter discusses how to install the Project Portfolio Management: Primavera P6-EBS Projects PIP. This chapter includes the following sections:

- Section 14.1, "Software Requirements"
- Section 14.2, "Configuration Wizard Interview"
- Section 14.3, "Installing the Project Portfolio Management: Primavera P6-EBS Projects PIP"
- Section 14.4, "Verifying Installation"
- Section 14.5, "Undeploying the Project Portfolio Management: Primavera P6 - EBS PIP"

14.1 Software Requirements

The Project Portfolio Management: Primavera P6-EBS Projects PIP requires:

- Primavera P6 version 8.0.0
- EBS 11.5.10 CU2 with the following patches:
  - Patch 5644830 for Oracle Projects Rollup Patch 4 for Oracle Projects Family Pack M (11i.PJ_PF.M).
  - Patch 3485155 for 11iPJ_PF.M.
  - Patch 8979063 for 11I.MRUP4 : Projects AIA Third Party Application Integration Cumulative Checkin.
  - Patch 10189818 - EBS:P6:11i.MRUP4: CUMULATIVE CHECKIN FOR AIA 3.1 RELEASE ISSUES.
- EBS 12.1.2 with the following patches:
  - 10281857:R12.PJF.B - R12.1: Projects AIA Third Party Application Integration Cumulative Checkin.
  - 10236500 patch on the EBS instance based on the iAS version.

14.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Project Portfolio Management: Primavera P6-EBS Projects PIP. Enter the details of the Project Portfolio Management: Primavera P6-EBS Projects PIP

screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

14.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 14–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

14.2.2 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance.

The screen contains the following fields:

Table 14–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____ _____

Table 14–2 (Cont.) Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact your administrator. Example: `8024`. E-Business Suite Port is _____
E-Business Suite User Name	To find this value, contact your administrator. E-Business Suite User Name is _____
E-Business Suite Password	To find this value, contact your administrator. E-Business Suite Password is _____
E-Business suite version	This is the version of the E-Business Suite Application. Valid values are `11.5.10.2` and `12.1.2`. Other versions are not supported in the 3.1 release.

14.2.3 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance.

The screen contains the following fields:

Table 14–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____
E-Business Suite Database User Name	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____

Table 14–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
Database Schema	To find this value, contact the database administrator. Example: `server1`. Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

14.2.4 Primavera P6 Server Details Screen

Table 14–4 Primavera P6 Server Details Screen Fields

Field	Description
P6 Webservice host url	This value is url of P6 Webservice host. Example: `http://p6webservice.com` P6 Webservice host url is _____ _____
P6 Webservice port	This value is the P6 Webservice port. To find this value, contact your administrator. For example: `1521` P6 Webservice port is _____ _
Username	To find this value, contact your administrator. Username is _____
Password	To find this value, contact your administrator. Password is _____
Currency Code	This value is the currency code in which the P6 server is currently operating. To find this value, contact your administrator. Currency Code is _____

14.3 Installing the Project Portfolio Management: Primavera P6-EBS Projects PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

14.3.1 Install the Project Portfolio Management: Primavera P6-EBS Projects PIP

To install the Project Portfolio Management: Primavera P6-EBS Projects PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 14–5 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Next**.
8. Click **Install**.
9. Exit installer once installation is complete.
10. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

14.3.2 Configure the Project Portfolio Management: Primavera P6-EBS Projects PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Project Portfolio Management: Primavera P6-EBS Projects PIP. Keep the completed worksheets of the Project Portfolio Management: Primavera P6-EBS Projects PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Project Portfolio Management: Primavera P6-EBS Projects PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".

3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **Project Portfolio Management: Primavera P6-EBS Projects PIP**
8. Click **Next**.

14.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

14.3.2.2 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your Oracle E-Business Suite Server installation in the **E-Business Suite Server Details** screen.
2. Click **Next.**

14.3.2.3 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your Oracle E-Business Suite Database installation in the **E-Business Suite Database Details** screen.
2. Click **Next.**

14.3.2.4 Specify the Primavera P6 Server Details

To specify Primavera P6 server details:

1. Enter information about your Primavera P6 installation in the **Primavera P6 Server Details** screen.
2. Click **Next**.

14.3.2.5 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 14.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.

4. Click **Finish** to close the configuration wizard.

14.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

14.3.4 Deploying the Project Portfolio Management: Primavera P6-EBS Projects PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.

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 14–6 Deployment commands for the Project Portfolio Management: Primavera P6-EBS Projects PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/EbizToP6EPPM/DeploymentPlans/EbizToP6EPPMDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/EbizToP6EPPM/DeploymentPlans/EbizToP6EPPMConditionalPolicy.xml -l <AIA_HOME>/pips/EbizToP6EPPM/DeploymentPlans/P6ToEbizEPPM.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\EbizToP6EPPM\DeploymentPlans\EbizToP6EPPMDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\EbizToP6EPPM\DeploymentPlans\EbizToP6EPPMConditionalPolicy.xml -l <AIA_HOME>\pips\EbizToP6EPPM\DeploymentPlans\EbizToP6EPPM.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

14.4 Verifying Installation

To verify the Project Portfolio Management: Primavera P6-EBS Projects PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 Project Portfolio Management: Primavera P6-EBS Projects PIP 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.
   - GetOperatingUnitEbizAdapter
   - SyncProjectFinancialPlanListEbizAdapter
   - SyncProjectFinancialPlanListEbizProvABCSImpl
   - SyncProjectFinancialPlanListEbizReqABCSImpl
   - SyncProjectFinancialPlanListP6PPMProvABCSImpl
   - SyncProjectFinancialPlanListP6PPMReqABCSImpl
   - SyncProjectListEbizAdapter
   - SyncProjectListEbizProvABCSImpl
   - SyncProjectListEbizReqABCSImpl
   - SyncProjectListP6PPMProvABCSImpl
   - SyncProjectListP6PPMProvABCSImpl
   - SyncProjectResourceRateScheduleListEbizJMSConsumer
   - SyncProjectResourceRateScheduleListEbizJMSProducer
   - SyncProjectResourceRateScheduleListEbizReqABCSImpl
   - SyncProjectResourceRateScheduleListP6PPMProvABCSImpl
   - SyncProjectResourceSetListEbizJMSConsumer
   - SyncProjectResourceSetListEbizJMSProducer
   - SyncProjectResourceSetListEbizReqABCSImpl
   - SyncProjectResourceSetListP6PPMProvABCSImpl

14.4.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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 14–7 Service Policy Attachments for Project Portfolio Management: Primavera P6-EBS Projects PIP

Composite	Service Policy
ProjectTemplateUtility	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProjectSplitter	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 14–8 No Authentication Service Policy Attachments for Project Portfolio Management: Primavera P6-EBS Projects PIP

Composite	Service Policy
SyncProjectResourceSetListEbizJMSProducer	oracle/no_authentication_service_policy
SyncProjectResourceRateScheduleListEbizJMSProducer	oracle/no_authentication_service_policy
SyncProjectListEbizJMSProducer	oracle/no_authentication_service_policy
SyncProjectFinancialPlanListEbizJMSProducer	oracle/no_authentication_service_policy

Table 14–9 Saml Opt On Client Policy Attachments for Project Portfolio Management: Primavera P6-EBS Projects PIP

Composite	Reference	Client Policy
ProjectTemplateUtility	client	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProjectSplitter	client	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 14–10 No Authentication Client Policy Attachments for Project Portfolio Management: Primavera P6-EBS Projects PIP

Composite	Reference	Client Policy
SyncProjectListP6EPPMProvABCSImpl	SyncService	oracle/no_authentication_client_policy
SyncProjectListP6EPPMProvABCSImpl	EPSService	oracle/no_authentication_client_policy
SyncProjectListP6EPPMReqABCSImpl	SyncService	oracle/no_authentication_client_policy
SyncProjectListP6EPPMReqABCSImpl	UDFTypeService	oracle/no_authentication_client_policy
SyncProjLabExpendItemListP6EPPMReqABCSImpl	TimesheetService	oracle/no_authentication_client_policy
SyncProjLabExpendItemListP6EPPMReqABCSImpl	ActivityService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ExpenseCategoryService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	UnitOfMeasureService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	WBSCategoryService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	RoleService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ResourceRateService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ResourceService	oracle/no_authentication_client_policy
SyncProjectResourceRateScheduleListP6EPPMProvABCSImpl	ResourceRateService	oracle/no_authentication_client_policy
SyncProjectResourceRateScheduleListP6EPPMProvABCSImpl	RoleRateService	oracle/no_authentication_client_policy
SyncResourceAvailabilityCalendarListP6EPPMProvABCSImpl	CalendarService	oracle/no_authentication_client_policy
ProjectTemplateUtility	UDFValueService	oracle/no_authentication_client_policy

Table 14–10 (Cont.) No Authentication Client Policy Attachments for Project Portfolio Management: Primavera P6-EBS Projects PIP

Composite	Reference	Client Policy
ProjectTemplateUtility	SyncService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeAssignmentService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeTypeService	oracle/no_authentication_client_policy
ProjectTemplateUtility	UDFTypeService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeService	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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Project Portfolio Management Integration Pack for Primavera P6 and Oracle E-Business Suite 3.1 - Implementation Guide*.

14.5 Undeploying the Project Portfolio Management: Primavera P6 - EBS PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 14–11 Undeployment command for the Project Portfolio Management: Primavera P6 - EBS PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/EbizToP6EPPM/DeploymentPlans/EbizToP6EPPMUndeployDP.xml -l <AIA_HOME>/pips/EbizToP6EPPM/DeploymentPlans/EbizToP6EPPMUndeployDP.log`

Table 14–11 (Cont.) Undeployment command for the Project Portfolio Management: Primavera P6 - EBS PIP

Platform	Undeployment Command
Microsoft Windows	`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\EbizToP6EPPM\DeploymentPlans\EbizToP6EPPMUndeployDP.xml -l <AIA_HOME>\pips\EbizToP6EPPM\DeploymentPlans\EbizToP6EPPMUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

15

Installing the Project Portfolio Mgmt: Primavera P6 - JDE E1

This chapter discusses how to install the Project Portfolio Management: Primavera P6-JDE E1 PIP. This chapter includes the following sections:

- Section 15.1, "Software Requirements"
- Section 15.2, "Configuration Wizard Interview"
- Section 15.3, "Installing the Project Portfolio Management: Primavera P6 - JDE E1 PIP"
- Section 15.4, "Performing Post-Installation Configurations"
- Section 15.5, "Verifying Installation"
- Section 15.6, "Undeploying the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP"

15.1 Software Requirements

The Project Portfolio Management: Primavera P6 - JDE E1 PIP requires:

- Primavera P6 Project Management release 8.0.0
- JD Edwards EnterpriseOne Tools release 8.98.3.0
- JD Edwards EnterpriseOne Applications release 9.0

At a minimum, you must have these JD Edwards EnterpriseOne modules:

- System Foundation
- Financial Management
- Project Costing

To synchronize equipment data when using this PIP, you must also have one or more of these JD Edwards EnterpriseOne modules:

- Capital Asset Management
- Service Management
- Customer Relationship Management (CRM) Foundation
- Case Management

To synchronize material data when using this PIP, you must also have the JD Edwards EnterpriseOne Inventory Management module.

Additionally, you must also install electronic software updates (ESUs), which you can find by locating searching on these part numbers on http://edelivery.oracle.com/:

- V22722-01

  This part number contains JD Edwards EnterpriseOne Tools 8.98.3.0 patch, which is required for the Project Portfolio Management Integration Pack for Primavera P6 and JDE E1

- V22751-01

  This part number contains the Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne 3.1 patches for JD Edwards EnterpriseOne Applications 9.0. These patches are required, and should be installed in the order listed here:

1. JL11051
2. JL12014
3. JL14984
4. JL12809
5. JL15556
6. JL13277

15.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Project Portfolio Management: Primavera P6 - JDE E1 PIP. Enter the details of the Project Portfolio Management: Primavera P6 - JDE E1 PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

15.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 15–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. To find this value contact your WebLogic administrator. The Admin User is _____

Table 15–1 (Cont.) PIP Server Details Screen Fields

Field	Description
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 with 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.

15.2.2 JD Edwards EnterpriseOne Business Services Screen

Use this screen to enter details related to your JD Edwards EnterpriseOne business services.

The screen contains the following fields:

Table 15–2 JD Edwards EnterpriseOne Business Services Screen Fields

Field	Description
Web Services Platform	This value is the web services platform that is used by EnterpriseOne. Valid platforms include Oracle WebLogic Server (WLS) and WebSphere Application Server (WAS). This value can be WLS or WAS. Select the appropriate platform from the drop-down menu. Example: `WLS` Web Services Platform is _____
Web Service Server URL	This value is the location of the EnterpriseOne business service server. This value should contain the entire path, including the trailing forward slash, but not contain the name of the particular web service. Example: `http://dnvmsvr20.mlab.jdedwards.com:9988/PY900/` Web Service URL is _____
Environment	This is the environment that the integration proxy user accesses during sign on. To find this value, contact your administrator. Example: `PY900CLM` Environment is _____

15.2.3 Primavera P6 Server Details

Table 15–3 Primavera P6 Server Details Screen Fields

Field	Description
P6 Webservice host url	This value is the url of the P6 Webservice host, and must contain either http:// or https:// as part of the url." Example: `http://example1.p6webservice.com` P6 Webservice host url is _____
P6 Webservice port	This value is the P6 Webservice port number. To find this value, contact your administrator. Example: `1521` P6 Webservice port is _____
Username	This value is the user name of a P6 user with rights to all of the operations that are supported by the AIA integration effort. To find this value, contact your administrator. Primavera P6 Username is _____
Password	This value is the password that is associated with the Primavera P6 username that you specify. The Username associated with this password should have access to P6 web services. To find this value, contact your administrator. Primavera P6 Password is _____
Currency Code	This value is the currency code in which the P6 server is currently operating. To find this value, contact your administrator. Currency Code is _____

15.3 Installing the Project Portfolio Management: Primavera P6 - JDE E1 PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

15.3.1 Install the Project Portfolio Management: Primavera P6 - JDE E1 PIP

To install the Project Portfolio Management: Primavera P6 - JDE E1 PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 15–4 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

   Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

15.3.2 Configure the Project Portfolio Management: Primavera P6 - JDE E1 PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Project Portfolio Management: Primavera P6 - JDE E1 PIP. Keep the completed worksheets of the Project Portfolio Management: Primavera P6 - JDE E1 PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Project Portfolio Management: Primavera P6 - JDE E1 PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.

4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. At the command line prompt, enter `chmod 777 aiaconf.sh` to change the mode of file so that it is executable.
6. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
7. Click **Next.**
8. Select the **Project Portfolio Management: Primavera P6 - JDE E1 PIP**
9. Click **Next**.

15.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

15.3.2.2 Specify JD Edwards EnterpriseOne Business Services Details

To specify JD Edwards EnterpriseOne Business Services Information details:

1. Enter information about your JD Edwards EnterpriseOne installation on the **EnterpriseOne Business Services Information** screen.
2. Click **Next.**

15.3.2.3 Specify the Primavera P6 Server Details

To specify Primavera P6 server details:

1. Enter information about your Primavera P6 installation in the **Primavera P6 Server Details** screen.
2. Click **Next.**

15.3.2.4 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 15.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

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2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

15.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

15.3.4 Deploying the Project Portfolio Management: Primavera P6 - JDE E1 PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 15–5 Deployment commands for the Project Portfolio Management: Primavera P6 - JDE E1 PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/JDEE1toP6EPPM/DeploymentPlans/JDEE1toP6EPPMDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>/pips/JDEE1toP6EPPM/DeploymentPlans/JDEE1toP6EPPMConditionalPolicy.xml -l <AIA_HOME>/pips/JDEE1toP6EPPM/DeploymentPlans/JDEE1toP6EPPMDP.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\JDEE1toP6EPPM\DeploymentPlans\JDEE1toP6EPPMDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DDeploymentPolicyFile=<AIA_HOME>\pips\JDEE1toP6EPPM\DeploymentPlans\JDEE1toP6EPPMConditionalPolicy.xml -l <AIA_HOME>\pips\JDEE1toP6EPPM\DeploymentPlans\JDEE1toP6EPPMDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

15.4 Performing Post-Installation Configurations

If you have installed the 2.5 release of this PIP, and are now installing the 3.1 release, you need to migrate data from 2.5 to 3.1. PIP specific data is stored in the **projectTemplates.xml** file in the config directory of your 2.5 installation.

Ignore this task if this is the fresh installation of the PIP.

To migrate the data:

1. Copy the **projectTemplates.xml fi**le from 2.5 installation directory. For example: *<aia_2.5_home>\config*
2. Paste the file in 3.1 installation directory. For example: *<aia_3.1_home>\config*

> **Note:** The locations specified here is just an example. The actual location of the config directory is specified by the following properties in the AIAconfigurationproperties.xml file:
>
> ```
> <ServiceConfigurationserviceName="{http://xmlns.oracle.com/ABCSImpl
> /P6EPPM/Core/ProjectTemplateUtility/V1}ProjectTemplateUtility">
> …
> <Propertyname="TemplateFileLocation">/slot/ems1099/oracle/AIAHome/c
> onfig</Property>
> …
> </ServiceConfiguration>
> ```

For more information about configuration properties, see the *Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne 3.1 Implementation Guide, "Implementing the Project Management:Primavera - JDE E1 PIP", Setting Configuration Properties*.

15.5 Verifying Installation

To verify the Project Portfolio Management: Primavera P6 - JDE E1 PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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. From Enterprise Manager 11g console, expand the SOA folder, then expand the appropriate SOA server, and verify that these items appear under **default**:
   - ProjectEBSV1
   - ProjectExtractJDEE1Consumer

- ProjectLabExpItemListEBSV1
- ProjectListP6EPPMJMSConsumer
- ProjectListSplitter
- ProjectResourceRateScheduleEBSV1
- ProjectResourceSetEBSV1
- ProjectTemplateUtility
- ResourceAvailabilityCalendarEBSV1
- ResourceAvailabilityCalendarExtractJDEE1Consume
- ResourceRateExtractJDEE1Consumer
- ResourceSetExtractJDEE1Consumer
- SyncProjectListJDEE1ProvABCSImpl
- SyncProjectListJDEE1ReqABCSImpl
- SyncProjectListP6EPPMProvABCSImpl
- SyncProjectListP6EPPMReqABCSImpl
- SyncProjectResourceRateScheduleListJDEE1ReqABCSImpl
- SyncProjectResourceRateScheduleListP6EPPMProvABCSImpl
- SyncProjectResourceSetListJDEE1ReqABCSImpl
- SyncProjectResourceSetListP6EPPMProvABCSImpl
- SyncProjLabExpendItemListJDEE1ProvABCSImpl
- SyncProjLabExpendItemListP6EPPMReqABCSImpl
- SyncResourceAvailabilityCalendarListJDEE1ReqABCSImpl
- SyncResourceAvailabiltiyCalendarListP6EPPMProvABCSImpl

If you have selected Websphere Application Server (WAS) for your JD Edwards EnterpriseOne web services platform, you should also verify that these items appear under default:

- BatchTimeSheetJDEE1WASConnector
- ProjectJDEE1WASConnector

3. When the PIP installation is complete, Oracle recommends that you restart the admin and soa servers. If you are using the file adaptor within the ResourceRateExtractJDEE1Consumer, this restart is required.

15.5.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

1. Login to EM Console
2. Navigate to **WebLogic Domain**, **soa_domain**, **Web Services**, **Policies**.
3. Verify **Service Policy** attachment.

a. Find the service policy in the list of policies.

b. Click the number in **Attachment Count** column.

   This opens **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 **Client Policy** attachment

   a. Navigate back to **Policies** screen and find the client policy

   b. Click the number in **Attachment Count** column.

      This opens **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 15–6 Service Policy Attachments for Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Composite	Service Policy
ProjectTemplateUtility	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProjectJDEE1WASConnector (WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
ProjectSplitter	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
BatchTimeSheetJDEE1WASConnector (WAS Install Only)	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 15–7 Wss Username Client Policy Attachments for Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Composite	Reference	Client Policy
ProjectJDEE1WASConnector (WAS Install Only)	ProjectManagerWAS	oracle/wss_username_token_client_policy
BatchTimeSheetJDEE1WASConnector (WAS Install Only)	BatchTimeSheetWAS	oracle/wss_username_token_client_policy
SyncProjectListJDEE1ProvABCSImpl	ProjectManager	oracle/wss_username_token_client_policy
SyncProjLabExpendItemListJDEE1ProvABCSImpl	BatchTimeSheetManager	oracle/wss_username_token_client_policy

Table 15–8 No Authentication Client Policy Attachments for Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Composite	Reference	Client Policy
SyncProjectListP6EPPMProvABCSImpl	SyncService	oracle/no_authentication_client_policy

Table 15–8 (Cont.) No Authentication Client Policy Attachments for Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Composite	Reference	Client Policy
SyncProjectListP6EPPMProvABCSImpl	EPSService	oracle/no_authentication_client_policy
SyncProjectListP6EPPMReqABCSImpl	SyncService	oracle/no_authentication_client_policy
SyncProjectListP6EPPMReqABCSImpl	UDFTypeService	oracle/no_authentication_client_policy
SyncProjLabExpendItemListP6EPPMReqABCSImpl	TimesheetService	oracle/no_authentication_client_policy
SyncProjLabExpendItemListP6EPPMReqABCSImpl	ActivityService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ExpenseCategoryService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	UnitOfMeasureService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	WBSCategoryService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	RoleService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ResourceRateService	oracle/no_authentication_client_policy
SyncProjectResourceSetListP6EPPMProvABCSImpl	ResourceService	oracle/no_authentication_client_policy
SyncProjectResourceRateScheduleListP6EPPMProvABCSImpl	ResourceRateService	oracle/no_authentication_client_policy
SyncProjectResourceRateScheduleListP6EPPMProvABCSImpl	RoleRateService	oracle/no_authentication_client_policy
SyncResourceAvailabilityCalendarListP6EPPMProvABCSImpl	CalendarService	oracle/no_authentication_client_policy
ProjectTemplateUtility	UDFValueService	oracle/no_authentication_client_policy
ProjectTemplateUtility	SyncService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeAssignmentService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeTypeService	oracle/no_authentication_client_policy
ProjectTemplateUtility	UDFTypeService	oracle/no_authentication_client_policy
ProjectTemplateUtility	ProjectCodeService	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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne 3.1 - Implementation Guide*.

15.6 Undeploying the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 15–9 Undeployment command for the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/JDEE1toP6EPPM/DeploymentPlans/JDEE1toP6EPPMUndeployDP.xml -l <AIA_HOME>/pips/JDEE1toP6EPPM/DeploymentPlans/JDEE1toP6EPPMUndeployDP.log`
Microsoft Windows	`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\JDEE1toP6EPPM\DeploymentPlans\JDEE1toP6EPPMUndeployDP.xml -l <AIA_HOME>\pips\JDEE1toP6EPPM\DeploymentPlans\JDEE1toP6EPPMUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

16

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

This chapter discusses how to install the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP. This chapter includes the following sections:

- Section 16.1, "Software Requirements"
- Section 16.2, "Configuration Wizard Interview"
- Section 16.3, "Installing the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP"
- Section 16.4, "Performing Post-Installation Configurations"
- Section 16.5, "Verifying Installation"
- Section 16.6, "Undeploying the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP"

16.1 Software Requirements

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

- Oracle Clinical RDC 4.6 with Patch 9659398 (OC_4.6.0.52) or Oracle Clinical RDC 4.6.2.
- Siebel Clinical 8.1.1.3 with Patch 11702469 (QF0382)

16.2 Configuration Wizard Interview

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 PIP. Enter the details of the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

16.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 16–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

16.2.2 Siebel CRM Base for Clinical Trial Management System Server Details

Use this screen to enter details related to your Siebel CRM Base for Clinical Trial Management System Server instance.

The screen contains the following fields:

Table 16–2 Siebel CRM Base for Clinical Trial Management System Server Details Screen Fields

Field	Description
Siebel Clinical Hostname	This value is the fully-qualified computer name of the Siebel Clinical host. 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 _____ _____
InternetProtocol	Example: https://

Table 16–2 (Cont.) Siebel CRM Base for Clinical Trial Management System Server Details Screen Fields

Field	Description
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	Example: enu

16.2.3 Oracle Clinical Server Details

Use this screen to enter details related to your Oracle Clinical server that is running Oracle Clinical web services.

The screen contains the following fields:

Table 16–3 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. 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. Example: `8024` Oracle Clinical Web Services Port is _____ _____
Oracle Clinical RDC Version	This value is the version of the Application. Example: `4.6`. To find this value, contact your administrator. Oracle Clinical RDC Version is _____ _____

16.2.4 Oracle Clinical Remote Data Capture Database Details

Use this screen to enter details related to your Oracle Clinical Remote Data Capture database details.

The screen contains the following fields:

Table 16–4 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. 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. Example: `1570` Oracle Clinical Database Port is _____
Oracle Clinical Database ID	This value is the SID of the Oracle Clinical database. Example: `prod`. To find this value, contact your administrator. Oracle Clinical Database ID is _____
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.

16.2.5 Session Pool Manager Screen

This PIP uses the Session Pool Manager utility to interact with Siebel web services. If the AIA server must invoke Siebel web services through a proxy server, please 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.

The screen contains the following fields:

Table 16–5 Session Pool Manager Screen Fields

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

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

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

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

> **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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

16.3.1 Install the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

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

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to the Disk1 directory: **cd Disk1**
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 16–6 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Next**.
8. Click **Install**.
9. Exit installer once installation is complete.
10. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

16.3.2 Configure the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP. Keep the completed worksheets of the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

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

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical**
8. Click **Next**.

16.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

16.3.2.2 Specify Siebel CRM Base for Clinical Trial Management System Server Details

To specify Siebel Clinical details:

1. Enter information about your Siebel CRM Base for Clinical Trial Management System Server instance in the **Siebel CRM Base for Clinical Trial Management System Server Details** screen.
2. Click **Next.**

16.3.2.3 Specify Oracle Clinical Server Details

To specify Oracle Clinical Server details:

1. Enter information about your Oracle Clinical environment in the **Oracle Clinical Server Details** screen.

   Note: Oracle Clinical Webservices 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.**

16.3.2.4 Specify Oracle Clinical Remote Data Capture Database Details

To specify Oracle Clinical Remote Data Capture Database details:

1. Enter information about your Oracle Clinical environment in the **Oracle Clinical Remote Data Capture Database Details** screen.
2. Click **Next.**

16.3.2.5 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information related to your Session Pool Manager installation in the **Session Pool Manager Details** screen.
2. Click **Next.**

16.3.2.6 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   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 silent 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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

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

To deploy the PIP to Fusion Middleware server, run the command specific to your platform:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.
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 16–7 Deployment commands for the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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	`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`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

16.4 Performing Post-Installation Configurations

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

- Section 16.4.1, "Create a User in Oracle WebLogic Server"
- Section 16.4.2, "Configuring Session Pool Manager"

16.4.1 Create 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. sadmin user, the default admin user of Siebel, is given here as an example.

To create a User:

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

16.4.2 Configuring Session Pool Manager

This PIP 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, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" .

16.5 Verifying Installation

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

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 PIP 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.
   - AIASessionPoolManager
   - HealthSciencesClinicalStudyEBS
   - UpdateClinicalStudyOCAQConsumer
   - UpdateClinicalStudyOCHealthSciencesProvABCSImpl
   - UpdateClinicalStudyOCHealthSciencesReqABCSImpl
   - UpdateClinicalStudySEBLHealthSciencesProvABCSImpl
   - UpdateClinicalStudySEBLHealthSciencesReqABCSImpl
   - UpdateClinicalStudySEBLJMSConsumer

16.5.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment

a. Navigate back to **Policies** screen and find the client policy

b. Click the number in **Attachment Count** column.

This opens **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 16–8 Service Policy Attachments for Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

Composite	Service Policy
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 16–9 No Authentication Client Policy Attachments for Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Study, Subject and Visit Synchronization Integration Pack for Siebel Clinical and Oracle Clinical for Application Integration Architecture (AIA) Service Pack 3.1 Implementation Guide*.

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

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.
2. Run the command for your platform.

Table 16–10 Undeployment command for the Study, Subject and Visit Synch: Siebel Clinical - Oracle Clinical PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	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	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 platoform.

Table 16–11 Undeployment command for Session Pool Manager

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	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

Table 16–11 (Cont.) Undeployment command for Session Pool Manager

Platform	Undeployment Command
Microsoft Windows	`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 Chapter 21, "Uninstalling Oracle AIA".

17

Installing the Clinical Trial Payments: Siebel Clinical PIP

This chapter discusses how to install the Clinical Trial Payments: Siebel Clinical PIP. This chapter includes the following sections:

- Section 17.1, "Software Requirements"
- Section 17.2, "Configuration Wizard Interview"
- Section 17.3, "Installing the Clinical Trial Payments: Siebel Clinical PIP"
- Section 17.4, "Performing Post-Installation Configurations"
- Section 17.5, "Verifying Installation"
- Section 17.6, "Undeploying the Clinical Trial Payments: Siebel Clinical PIP"

17.1 Software Requirements

The Clinical Trial Payments: Siebel Clinical PIP requires:

- Siebel Clinical 8.1.1.3 with Patch 10391211 (QF0362) and Patch 11702469 (QF0382).

17.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Clinical Trial Payments: Siebel Clinical PIP. Enter the details of the Clinical Trial Payments: Siebel Clinical PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

17.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 17–1 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. Example: `server1.company.com`. The Admin Host Name is _____

Table 17–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Admin Port	This is the port number on which the Weblogic Admin server is started. To find this value contact the WebLogic administrator. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

17.2.2 Siebel CRM Base for Clinical Trial Management System Server Details Screen

Use this screen to enter details related to your Siebel CRM Base for Clinical Trial Management System Server instance.

The screen contains the following fields:

Table 17–2 Siebel CRM Base for Clinical Trial Management System Server Details Screen Fields

Field	Description
Siebel Clinical Hostname	This value is the fully-qualified computer name of the Siebel Clinical host. 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 _____
InternetProtocol	Example: https://
Siebel Clinical Version	This is the version of the Siebel Clinical application. Enter the valid version for this release. Check software requirements section for version information.

Table 17–2 (Cont.) Siebel CRM Base for Clinical Trial Management System Server Details Screen Fields

Field	Description
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 Enterprise Server Name	To find this value, contact the database administrator. Siebel Enterprise Server Name is _____ _____
Siebel Language	Example: enu

17.2.3 Session Pool Manager Screen

This PIP uses the Session Pool Manager utility to interact with Siebel web services. If the AIA server must invoke Siebel web services through a proxy server, please 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.

The screen contains the following fields:

Table 17–3 Session Pool Manager Screen Fields

Field	Description
Proxy Host URL	Specify the proxy host location. Example: `www-proxy.your.company.com` Proxy Host URL is _____ _____
Proxy Port	Specify the proxy port. Example: `80` Proxy Port is _____ ____

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

17.3 Installing the Clinical Trial Payments: Siebel Clinical PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

17.3.1 Install the Clinical Trial Payments: Siebel Clinical PIP

To install the Clinical Trial Payments: Siebel Clinical PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to the Disk1 directory: **cd Disk1**
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 17–4 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

17.3.2 Configure the Clinical Trial Payments: Siebel Clinical PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Clinical Trial Payments: Siebel Clinical PIP. Keep the completed worksheets of the Clinical Trial Payments: Siebel Clinical PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Clinical Trial Payments: Siebel Clinical PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select **Clinical Trial Payments: Siebel Clinical**.
8. Click **Next**.

17.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

17.3.2.2 Specify Siebel CRM Base for Clinical Trial Management System Server Details

To specify Siebel CRM Base for Clinical Trial Management System Server details:

1. Enter information about your Siebel CRM Base for Clinical Trial Management System Server instance in the **Siebel CRM Base for Clinical Trial Management System Server Details** screen.
2. Click **Next.**

17.3.2.3 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information related to your Session Pool Manager installation in the **Session Pool Manager Details** screen.
2. Click **Next.**

17.3.2.4 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

> **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 silent 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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.

4. Click **Finish** to close the configuration wizard.

17.3.3 Deploying the Clinical Trial Payments: Siebel Clinical PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.

2. Run the platform for your command.

> **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 17–5 Deployment commands for the Clinical Trial Payments: Siebel Clinical PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/ClinicalTrialPaymentsSC/DeploymentPlans/ClinicalTrialPaymentsSCDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/ClinicalTrialPaymentsSC/DeploymentPlans/ClinicalTrialPaymentsSCSupplementaryDP.xml -l <AIA_HOME>/pips/ClinicalTrialPaymentsSC/DeploymentPlans/ClinicalTrialPaymentsSC.log`

Table 17–5 (Cont.) Deployment commands for the Clinical Trial Payments: Siebel

Platform	Deployment Command
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\ClinicalTrialPaymentsSC\DeploymentPlans\ClinicalTrialPaymentsSCDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\ClinicalTrialPaymentsSC\DeploymentPlans\ClinicalTrialPaymentsSCSupplementaryDP.xml -l <AIA_HOME>\pips\ClinicalTrialPaymentsSC\DeploymentPlans\ClinicalTrialPaymentsSCDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

17.4 Performing Post-Installation Configurations

This section discusses post-installation configurations for the Clinical Trial Payments: Siebel Clinical PIP. The section includes:

- Section 17.4.1, "Create a User in Oracle WebLogic Server"
- Section 17.4.2, "Restart the SOA Server"
- Section 17.4.3, "Configuring Session Pool Manager"

17.4.1 Create 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. sadmin user, the default admin user of Siebel, is given here as an example.

To create a User:

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

17.4.2 Restart the SOA Server

To restart the SOA server:

1. Navigate to WebLogic console.
2. Under Domain Structure, select **Environments**, then select **Servers**.
3. Click **Control** tab.
4. Select **soa_server1** check box.
5. Click **Shutdown** and select **Force Shutdown now**.
6. Click **Yes** when asked to confirm that you wish to shutdown the administration server.
7. Keep **soa_server1** check box selected.
8. Click **Start**.
9. Click **Yes** when asked to confirm that you wish to start the server.

17.4.3 Configuring Session Pool Manager

This PIP 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, refer to *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager" .

17.5 Verifying Installation

To verify the Clinical Trial Payments: Siebel Clinical PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX Based Systems: Review the install log located at <AIA_HOME>/aia_instances/<instance name>/logs or <AIA_HOME>/cfgtoollogs/oui/<install><timestamp>.out once you close OUI to verify that the PIP is successfully installed.

- For Microsoft Windows: Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs or <AIA_HOME>\cfgtoollogs\oui\<install><timestamp>.out once you close OUI to verify that the PIP is successfully installed.

2. Confirm that the Clinical Trial Payments: Siebel Clinical PIP 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.

- CreatePayableInvoiceResponseSEBLCLINProvABCSImpl
- CreatePaymentRequestSEBLCLINReqABCSImpl
- HealthSciencesDisbursedPaymentEBS
- HealthSciencesPayableInvoiceEBS
- HealthSciencesPayableInvoiceResponseEBS
- ProcessDisbursedPaymentNotificationSEBLCLINProvABCSImpl
- ProcessPayableInvoiceNotificationSEBLCLINProvABCSImpl
- SEBLCLINPayableInvoiceJMSConsumer

17.5.1 Validating Security Policies

All SOA composites are protected by Global Policies provided by Foundation Pack as defined in the Security section of the Developer Guide. Additionally individual services for this PIP have locally attached security policies.

To validate locally attached security policies:

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

      This opens **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 **Client Policy** attachment
   a. Navigate back to **Policies** screen and find the client policy
   b. Click the number in **Attachment Count** column.

      This opens **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 17–6 Service Policy Attachments for Clinical Trial Payments: Siebel Clinical PIP

Composite	Service Policy
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 17–7 No Authentication Client Policy Attachments for Clinical Trial Payments: Siebel Clinical PIP

Composite	Reference	Client Policy
CreatePayableInvoiceResponseSEBLCLINProvABCSImpl	Ref	oracle/no_authentication_client_policy
ProcessDisbursedPaymentSEBCLINProvABCSImpl	SWI_spcLS_spcClinical_spcPayments_spcInbound	oracle/no_authentication_client_policy
ProcessPayableInvoiceNotificationSEBLCLINProvABCSImpl	SWI_spcLS_spcClinical_spcPayments_spcInbound	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 (11.1.1.4.0)*, "Working with Security."

For PIP implementation, see *Oracle Clinical Trial Payments Integration Pack for Siebel Clinical for Application Integration Architecture (AIA) Service Pack 3.1 Implementation Guide*.

17.6 Undeploying the Clinical Trial Payments: Siebel Clinical PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the installation environment.
2. Run the command for your platform.

Table 17–8 Undeployment command for the Clinical Trial Payments: Siebel Clinical PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/ClinicalTrialPaymentsSC/DeploymentPlans/ClinicalTrialPaymentsSCUndeployDP.xml -l <AIA_HOME>/pips/ClinicalTrialPaymentsSC/DeploymentPlans/ClinicalTrialPaymentsSCUndeployDP.log`

Table 17–8 (Cont.) Undeployment command for the Clinical Trial Payments: Siebel

Platform	Undeployment Command
Microsoft Windows	`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\ClinicalTrialPaymentsSC\DeploymentPlans\ClinicalTrialPaymentsSCUndeployDP.xml -l <AIA_HOME>\pips\ClinicalTrialPaymentsSC\DeploymentPlans\ClinicalTrialPaymentsSCUndeployDP.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 platoform.

Table 17–9 Undeployment command for Session Pool Manager

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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	`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 Chapter 21, "Uninstalling Oracle AIA".

18

Installing Serialization and Tracking: OPSM - EBS

This chapter discusses how to install Serialization and Tracking: OPSM - EBS. This chapter includes the following sections:

- Section 18.1, "Software Requirements"
- Section 18.2, "Configuring Oracle Data Integrator"
- Section 18.3, "Creating Oracle Data Integrator Repositories"
- Section 18.4, "Configuration Wizard Interview"
- Section 18.5, "Installing the Serialization and Tracking: OPSM - EBS"
- Section 18.6, "Performing Post-Installation Configurations"
- Section 18.7, "Verifying Installation"
- Section 18.8, "Undeploying Serialization and Tracking: OPSM - EBS"

18.1 Software Requirements

The Serialization and Tracking: OPSM - EBS integration requires:

- OPSM 1.1
- Oracle E-Business Suite 12.1.2 or 11.5.10 with patches
  - Oracle E-Business Suite 12.1.2 with the following patches applied:

Table 18–1 Required Patches for Oracle E-Business Suite 12.1.2

My Oracle Support Patch Number	Description
10142201:R12.INV.B	OPSM integration objects
10306577:R12.GME.B	OPSM related OPM changes

  - Oracle E-Business Suite 11.5.10 with the following patches applied:

Table 18–2 Required Patches for Oracle E-Business Suite 11.5.10

My Oracle Support Patch Number	Description
11662684	OPSM integration objects
10390291	OPSM related OPM changes

- Oracle Data Integrator 11g Release 1 (11.1.1.3) with the following patches:

Table 18–3 ODI 11g Release (11.1.1.3) Patches

Product	My Oracle Support Patch Number	Description
Oracle Data Integrator	9814235	Oracle Data Integrator: Patch NOSUCHMETHODERROR DURING ODI_SERVER1 STARTUP **Note:** This patch is required for compatibility with Oracle SOA Suite 11*g* Release 1 (11.1.1.4) PS3.
Oracle Data Integrator	10172307	Oracle Data Integrator: Patch ODIINVOKEWEBSERVICE UNABLE TO INVOKE WEBSERVICES WITH USER AUTHENTICATION. **Note:** This patch helps ODI invoke secured web services using HTTP Basic Authentication.

18.2 Configuring Oracle Data Integrator

To run AIA Installer you must have ODI access with Supervisor privileges.

For install purposes, the ODI software must reside on the same server where Foundation Pack is installed. After the Serialization and Tracking: OPSM - EBS installation is complete, the ODI software can be installed on another server (if desired) connecting to the master and work repositories used during the Serialization and Tracking: OPSM - EBS installation.

18.3 Creating Oracle Data Integrator Repositories

You can use an existing master repository as long as it exists on an Oracle database and its ID is not 200. If its ID is 200, AIA advises that you create a new master repository.

You can use an existing work repository as long as it exists on an Oracle database and its ID is not 900. If its ID is 900, AIA advises that you create a new master repository.

When you run the configuration wizard, it inserts or updates the integration artifacts into these repositories.

AIA recommends that you take a backup of the master and work repositories before you start the install process.

For information about creating Oracle Data Integrator Master and Work repositories, see the *Oracle® Fusion Middleware Developer's Guide for Oracle Data Integrator 11g Release 1*, "Administering the Oracle Data Integrator Repositories."

18.4 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of Serialization and Tracking: OPSM - EBS. Enter the details of Serialization and Tracking: OPSM - EBS screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

18.4.1 PIP Server Details Screen

All artifacts associated with the integration infrastructure components will be deployed to the PIP server. This screen contains the following fields:

Table 18–4 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

18.4.2 Oracle Pedigree and Serialization Manager Database Details

Use this screen to enter details related to your Oracle Pedigree and Serialization Manager database instance. The screen contains the following fields:

Table 18–5 Oracle Pedigree and Serialization Manager Database Details Screen Fields

Field	Description
OPSM Database Host	This value is the fully-qualified machine name of the OPSM database. Example: `example1.corp.oracle.com` OPSM Database Host is _____
OPSM Database Port	To find this value, contact the database administrator. Example: `8024` OPSM Database Port is _____
OPSM Database Username	To find this value contact the database administrator. Example: `sys`. OPSM Database Username is _____

Table 18–5 (Cont.) Oracle Pedigree and Serialization Manager Database Details Screen

Field	Description
OPSM Database Password	To find this value, contact the database administrator. OPSM Database Password is _____
OPSM Database SID (System ID)	To find this value, contact the database administrator. Example: `SID`. OPSM Database SID is _____
OPSM Database Schema	To find this value, contact the database administrator. The database schema name should be in upper case. Example: `PAS`. OPSM Database Schema is _____

18.4.3 Oracle E-Business Suite Server Details Screen

Use this screen to enter details related to your Oracle E-Business Suite server instance. The screen contains the following fields:

Table 18–6 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified machine name of the Oracle E-Business Suite application. Example: `example1.corp.oracle.com`. E-Business Suite Host Name is _____
E-Business Suite Port	This value is the Oracle E-Business Suite application port. To find this value, contact the administrator. Example: `8024`. E-Business Suite Port is _____
E-Business Suite User Name	To find this value, contact the administrator. E-Business Suite User Name is _____
E-Business Suite Password	To find this value, contact the administrator. E-Business Suite Password is _____
Workflow Business Event System Name	This is the Workflow Business Event System Name of the E-Business Suite Server. For example: `server2.xyz.com`. To find this value, contact your administrator. Workflow Business Event System Name is _____ _____
E-Business suite version	This is the version of the E-Business Suite application. Valid values are `12.1.2` and `11.5.10`.

18.4.4 Oracle E-Business Suite Database Details Screen

Use this screen to enter details related to your Oracle E-Business Suite database instance. The screen contains the following fields:

Table 18–7 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the machine name. To find this value, contact the database administrator. Example: `server1.oracle.com`. E-Business Suite Database Host is _____
E-Business Suite Database Port	To find this value, contact the database administrator. Example: `1521`. E-Business Suite Database Port is _____
E-Business Suite Database Username	To find this value, contact the database administrator. Example: `apps`. E-Business Suite Database Username is _____
E-Business Suite Database Password	To find this value, contact the database administrator. E-Business Suite Database Password is _____
E-Business Suite Database SID (System ID)	To find this value, contact the database administrator. Example: `orcl`. E-Business Suite Database SID is _____
E-Business Suite Database Schema	To find this value, contact the database administrator. The database schema name should be in upper case. Example: `APPS`. E-Business Suite Database Schema is _____ _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

18.4.5 Oracle Data Integrator Access Information Details Screen

Use this screen to enter details for accessing Oracle Data Integrator. This screen contains the following fields:

Table 18–8 Oracle Data Integrator Access Information Details Screen Fields

Field	Description
ODI_HOME	Provide the path to the ODI_HOME up to the oracledi folder (included). To find this value, contact your administrator. Example: `/slot/emsxxx/abc/ODI11113/oracledi/agent` for Linux and `c:\ODI11113\oracledi\agent` for Windows. ODI_Home is _____
ODI User	To find this value, contact your administrator. Example: `SUPERVISOR`. ODI User is _____
ODI Password	To find this value, contact your administrator. Example: `SUNOPSIS` ODI Password is _____

Table 18–8 (Cont.) Oracle Data Integrator Access Information Details Screen Fields

Field	Description
Path for exported DVMs	Enter the path to the directory where you want to export domain value mappings (DVMs). Example: `<AIA_ HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/DVM_XMLS` One of the steps for setting up the integration is to export some DVMs to a location. The installer needs to know this location to configure ODI artifacts during the install. It is recommended that you select a location in the same server where the ODI software will run. Path for exported DVMs is _____

18.4.6 Oracle Data Integrator Master Repository Details Screen

You must set up an ODI Master Repository prior to installing the Serialization and Tracking: OPSM - EBS. This master repository must be created in an Oracle database.

The install process appends integration artifacts into this master repository.

Use this screen to enter details to access the Oracle Data Integrator master repository. If the master repository is already configured, field values in the screen will be populated automatically.

The screen contains the following fields:

Table 18–9 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host Name	To find this value, contact your database administrator. Example: `server1.oracle.com` Database Host Name is _____
Database Port Number	To find this value, contact your database administrator. Example: `1521` Database Port Number is _____
Database Username	To find this value, contact your database administrator. Example: `snpm` Database Username is _____
Database Password	To find this value, contact your database administrator. Example: `snpm` Database Password is _____
Database SID (System ID)	To find this value, contact your database administrator. Example: `oracle` Database SID is _____

18.4.7 Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS Details Screen

You must set up an ODI Work Repository prior to installing the Serialization and Tracking: OPSM - EBS. The install process imports the Serialization and Tracking:

OPSM - EBS ODI artifacts into an ODI work repository. You can provide an existing ODI work repository or provide an empty one that has been created specifically for the PIP. It is recommended that you use an empty repository.

Use this screen to enter details related to the ODI work repository. If the master repository is already configured, field values in the screen will be populated automatically.

The screen contains the following fields:

Table 18–10 Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS Details Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI work repository for PIP Artifacts. Example: `OPSMEBS` ODI Work Repository Name is _____
ODI Work Repository ID	Enter the ID number that you used for the ODI work repository. It should be between 1 and 899. Example: `200` Do not use 900. Also do not use the ID already used for other work repositories. ODI Work Repository ID is _____
ODI Work Repository Database Host	To find this value, contact your database administrator. Example: `localhost` ODI Work Repository Database Host is_____
ODI Work Repository Database Port	To find this value, contact your database administrator. Example: `1521` ODI Work Repository Database Port is_____
ODI Work Repository Database SID	To find this value, contact your database administrator. Example: `XE` ODI Work Repository Database SID is_____
ODI Work Repository Database Username	To find this value, contact your database administrator. Example: `master`. This field is also known as the Work Repository Schema Name. ODI Work Repository Database Username is_____
ODI Work Repository Database Password	To find this value, contact your database administrator. ODI Work Repository Database Password is_____
ODI Work Repository Database Schema	To find this value, contact your database administrator. The database schema name should be in upper case. Example: `OPSMEBSWORKREP`. ODI Work Repository Database Schema is _____

18.5 Installing the Serialization and Tracking: OPSM - EBS

This section discusses the integration installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your integration using the configuration wizard.
3. Deploy the integration to the Fusion Middleware server.

18.5.1 Install Serialization and Tracking: OPSM - EBS

To install Serialization and Tracking: OPSM - EBS:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 18–11 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches the **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

18.5.2 Configure Serialization and Tracking: OPSM - EBS

The screens that appear prompt you to enter the data that is required for successful configuration of Serialization and Tracking: OPSM - EBS. Keep the completed worksheets of Serialization and Tracking: OPSM - EBS screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure Serialization and Tracking: OPSM - EBS:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the **AIA Configuration Wizard.**
6. Click **Next.**
7. Select **Serialization and Tracking: OPSM - EBS**.
8. Click **Next**.

18.5.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

18.5.2.2 Specify Oracle Pedigree and Serialization Manager Database Details

To specify Oracle Pedigree and Serialization Manager Database details:

1. Enter information about your Oracle Pedigree and Serialization Manager Database instance in the **Oracle Pedigree and Serialization Manager Database Details** screen.
2. Click **Next.**

18.5.2.3 Specify Oracle E-Business Suite Server Details

To specify Oracle E-Business Suite Server details:

1. Enter information about your Oracle E-Business Suite Server in the **E-Business Suite Server Details** screen.
2. Click **Next.**

18.5.2.4 Specify Oracle E-Business Suite Database Details

To specify Oracle E-Business Suite Database details:

1. Enter information about your Oracle E-Business Suite Database in the **E-Business Suite Database Details** screen.
2. Click **Next.**

18.5.2.5 Specify Oracle Data Integrator Access Details

To specify Oracle Data Integrator Access details:

1. Enter information about your Oracle Data Integrator Access installation in the **Oracle Data Integrator Access Information** screens.

   Oracle Data Integration Access Information is captured in three screens. Enter the following information in the screens.

2. Specify **ODI Home**.
3. Click **Next.**
4. Enter **ODI User** and **ODI Password**.
5. Click **Next.**

18.5.2.6 Specify Oracle Data Integrator Master Repository Details

To specify Oracle Data Integrator Master Repository details:

1. Enter information about your Oracle Data Integrator Master Repository installation in the **Oracle Data Integrator Master Repository** screen.
2. Click **Next.**

18.5.2.7 Specify Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS Details

To specify Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS details:

1. Enter information about your Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS installation in the **Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS** screen.
2. Click **Next.**

18.5.2.8 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 18.5.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

   ---

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

18.5.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

18.5.4 Deploying Serialization and Tracking: OPSM - EBS

To deploy the integration to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 18–12 Deployment commands for the Serialization and Tracking: OPSM - EBS

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/OPSMtoEbiz/DeploymentPlans/OPSMtoEbizDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <AIA_HOME>/pips/OPSMtoEbiz/DeploymentPlans/OPSMtoEbiz.log`

Table 18–12 (Cont.) Deployment commands for the Serialization and Tracking: OPSM -

Platform	Deployment Command
Microsoft Windows	`ant -f <AIA_ HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>\pips\OPSMtoEbiz\DeploymentPlans\OPSMtoEbizDP.xml -DPropertiesFile=<AIA_ HOME>\aia_instances\<aia_ instance>\config\AIAInstallProperties.xml -l <AIA_ HOME>\pips\OPSMtoEbiz\DeploymentPlans\OPSMtoEbizDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as, BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as, Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as, composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Generating Deployment Plans and Deploying Artifacts".

18.6 Performing Post-Installation Configurations

This section discusses post-installation configurations for the Serialization and Tracking: OPSM - EBS integration. The section includes:

- Section 18.6.1, "Configuring Environment Variables"
- Section 18.6.2, "Launching the Serialization and Tracking: OPSM - EBS Agent"
- Section 18.6.3, "Stopping the Serialization and Tracking: OPSM - EBS Agent"
- Section 18.6.4, "Configuring ODI Variables"
- Section 18.6.5, "Configuring Web Services for Serialization and Tracking: OPSM - EBS (Optional)"
- Section 18.6.6, "Verifying the Database Connection (Optional)"
- Section 18.6.7, "Configuring the Remote OPSM JMS Queue in Serialization and Tracking: OPSM - EBS (Required)"

- Section 18.6.8, "Configuring Cross Domain Security in Serialization and Tracking: OPSM – EBS (Required)"
- Section 18.6.9, "Maintaining Serialization and Tracking: OPSM - EBS"
- Section 18.6.10, "Adding File permissions"

18.6.1 Configuring Environment Variables

Configure the following environment variables:

Table 18–13 Environment Variables to be configured for the Serialization and Tracking: OPSM - EBS

Environment Variable	Description
ODI_BIN_DIR	The location of the ODI program. Recommended: `<ODIHOME>/oracledi/agent/bin`

18.6.2 Launching the Serialization and Tracking: OPSM - EBS Agent

The Serialization and Tracking: OPSM - EBS agent should be up and running before you execute any scenario from ODI or OPSM.

To start the Serialization and Tracking: OPSM - EBS agent, navigate to <AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/Agent_Files directory and run the `start_odi_agent.bat` file (or start_odi_agent.sh in Linux) command.

The agent is launched as a listener.

Note: Ensure that the executable permission is enabled on all the shell scripts.

18.6.3 Stopping the Serialization and Tracking: OPSM - EBS Agent

When you are not using integration, you can stop the Serialization and Tracking: OPSM - EBS agent.

To stop the Serialization and Tracking: OPSM - EBS agent, navigate to <AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/Agent_Files directory and run the `stop_odi_agent.bat` file (or stop_odi_agent.sh in Linux).

18.6.4 Configuring ODI Variables

A number of variables must be configured in ODI to support the Serialization and Tracking: OPSM - EBS. Many variables are configured when you install the integration. Configure the following variables using the ODI Designer. After the variables are defined in the ODI Designer, run the Regenerate All Scenarios package to reconfigure the main integration packages.

Table 18–14 ODI Variables to be configured for the Serialization and Tracking: OPSM - EBS

ODI Variable	Description
PVV_FROM_EMAIL_ADDRESS	Email address for notification result queries.

Table 18–14 (Cont.) ODI Variables to be configured for the Serialization and Tracking: OPSM - EBS

ODI Variable	Description
PVV_TO_EMAIL_ADDRESS	Email addresses of individuals to be notified of integration results. Separate multiple email addresses with a comma.
PVV_PIP_HOME	Home directory of the PIP. Default value is <AIA_ HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1
PVV_MAIL_SERVER	Mail server to which email is to be forwarded for notification.

All the ODI scenarios must be regenerated if any variable value is changed. To regenerate the ODI scenarios:

1. Open **ODI Operator**.
2. Expand the **Scenarios** tab.
3. Right click the scenario that you want to regenerate.
4. Click **Regenerate** option.
5. Click **OK** button twice.

18.6.5 Configuring Web Services for Serialization and Tracking: OPSM - EBS (Optional)

Configure the following services:

- CreateShipmentReceiptListEbizJMSProducer
- CreateShipmentReceiptListEbizJMSConsumer
- CreateShipmentReceiptListEbizReqABCSImpl
- ShipmentReceiptEBS
- CreateShipmentReceiptListPASProvABCSImpl
- CreateShipmentReceiptListPASJMSProducer
- CreateAdvanceShipmentNoticeListEbizJMSProducer
- CreateAdvanceShipmentNoticeListEbizJMSConsumer
- CreateAdvanceShipmentNoticeListEbizReqABCSImpl
- AdvanceShipmentNoticeEBS
- CreateAdvanceShipmentNoticeListPASProvABCSImpl
- CreateAdvanceShipmentNoticeListPASJMSProducer
- SyncItemLotListEbizJMSProducer
- SyncItemLotListEbizJMSConsumer
- SyncItemLotListEbizReqABCSImpl
- ItemLotEBS
- SyncItemLotListPASProvABCSImpl
- SyncItemLotListPASJMSProducer

To configure the above Web Services, see *Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite 3.1 - Implementation Guide*.

18.6.6 Verifying the Database Connection (Optional)

To verify the database connection:

1. Open **ODI Topology Manager**.
2. Navigate to **Technologies**, **Oracle** in the **Physical Architecture** tab and expand the **Oracle** node.
3. Select **PASDS**.
4. Right click and select **Open**.
5. Click **Test Connection**.

   The Test Connection window appears.
6. Click **Test**.

   If successful connection message does not pop up, verify the connection information in the Definitions and JDBC tabs.
7. Repeat steps 1 - 6 for the following data sources:
   - OracleEbizDS
   - WorkRepDS

18.6.7 Configuring the Remote OPSM JMS Queue in Serialization and Tracking: OPSM - EBS (Required)

To configure the Remote OPSM JMS Queue in Serialization and Tracking: OPSM - EBS:

1. Navigate to **Administration Console**: http://<server name>:<port number>/console.
2. Log in with the server admin user name. For access details, contact the system administrator.
3. Navigate to **Domain Structure**, **soa_domain**, **Deployments**.
4. Click **AIA_JmsAdapter_Config** in the **Deployments** table.
5. Select **Configuration** Tab.
6. Select **Outbound Connection Pools** tab.
7. Click **eis/wlsjms/AIAPASCF** instance in the **Outbound Connection Pool Configuration Table**.
8. Update the following properties and leave the rest of the properties with their default values:

Table 18–15 Properties to be updated for configuring the Remote OPSM JMS Queue

Property Name	Property Type	Property Value
ConnectionFactoryLocation	Java.lang.String	**oracle/apps/jms/pas/OPSMCF**

Table 18–15 (Cont.) Properties to be updated for configuring the Remote OPSM JMS

Property Name	Property Type	Property Value
FactoryProperties	Java.lang.String	java.naming.factory.initial=weblogic.jndi.WLInitialContextFactory;java.naming.provider.url=**t3://<OPSM server host>:<SOA port number>**

9. Click **Save**.
10. Navigate back to **soa_domain**, **Deployments**.
11. Select **AIA_JmsAdapter_Config** and click **Update**.
12. Select the option `Update this application in place with new deployments plan changes…….`
13. Click **Finish**.

18.6.8 Configuring Cross Domain Security in Serialization and Tracking: OPSM – EBS (Required)

Cross Domain Security establishes trust between two WebLogic Server domain pairs by using a credential mapper to configure communication between these WebLogic Server domains.

To configure Cross Domain Security between the OPSM Weblogic Server domain and the PIP WebLogic Server domain:

1. Enable Cross Domain Security.
   a. Open Administration Console: http://<server name>:<port number>/console.
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Navigate to **Domain Structure**, **soa_domain**.
   d. Open the **Security: General** tab in the console.
   e. Check **Cross Domain Security Enabled**.
   f. Click **Save**.

   Repeat steps a to f for the OPSM WebLogic Server domain.
2. Configure a Cross Domain User.

   Cross-domain security in WebLogic Server uses a global security role named CrossDomainConnector with resource type remote and a group named CrossDomainConnectors, which is assigned the CrossDomainConnector role. Invocation requests from remote domains are expected to be from users with the CrossDomainConnector role. By default, the CrossDomainConnectors has no users as members. You need to create one or more users and add them to the group CrossDomainConnectors. Typically, such a user will be a virtual system user and preferably should have no privileges other than those granted by the CrossDomainConnector security role.

   a. Open Administration Console: http://<server name>:<port number>/console.

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Navigate to **Domain Structure**, **soa_domain**, **Security Realms**.

d. Click the name of your security realm (default is myrealm).

e. Open the **Users and Groups** tab in the console.

f. Click the **New** button to create a new user.

g. Enter the **Name**, **Description**, and **Password** for the new user and click **OK**.

h. On the **Users and Groups: Users** tab, click the name of the user you just created.

i. Open the **Groups** tab.

j. Find the **CrossDomainConnectors** group in the list of available parent groups on the left and click the shuttle button to move that group into the chosen group list on the right.

k. Click Save.

Repeat these steps for the OPSM WebLogic Server domain to create a cross domain user in that domain.

3. Configure a Credential Mapping for Cross Domain Security.

In each WebLogic Server domain, you need to specify a credential to be used by each user on each remote domain that needs to be trusted. Do this by configuring credential mappings for each domain in the connection.

a. Open Administration Console: http://<server name>:<port number>/console.

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Navigate to **Domain Structure**, **soa_domain**, **Security Realms**.

d. Click the name of your security realm (default is myrealm).

e. Open the **Credential Mappings: Default** tab and click **New**.

f. On the Creating the Remote Resource for the Security Credential Mapping:

Select Use cross-domain protocol.

In the **Remote Domain** field, enter the name of the remote domain that needs to interact with the local domain.

Leave blank the **Protocol**, **Remote Host**, **Remote Port**, **Path**, and **Method** parameters.

Click **Next**.

g. On the Create a New Security Credential Mapping Entry page, enter the following:

Local User: cross-domain

Remote User: User configured in the Remote Domain that is authorized to interact with the Local Domain.

Password: The password for the Remote User.

h. Click **Finish**.

Repeat the steps for the OPSM WebLogic Server domain to create a credential mapping for cross domain security on that domain.

18.6.9 Maintaining Serialization and Tracking: OPSM - EBS

Serialization and Tracking: OPSM - EBS integration files will be maintained in the `<AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1` (PIP_HOME) directory. This directory contains DVM xml files, Agent files, and error log files used by the ODI flows.

DVM xmls: Serialization and Tracking: OPSM - EBS integration is delivered with the location and work order status DVM xml files with their defaults mapping values. DVM files are maintained in the DVM_XMLS directory, which is available under the PIP_HOME directory. You can add additional mapping values by editing these xml files. The table below is an example of the Location DVM xml.

Table 18–16 Serialization and Tracking: OPSM - EBS Location DVM xml

EBIZ_01	COMMON	PAS_01
M1	M1 org	M1
M2	M2 org	M2
P1	P1 org	P4

Agent files: Agent files are maintained in the Agent_Files directory, which is available under the PIP_HOME directory. To execute an ODI flow you need to start an agent from this location.

Error logs: Error log files are used by the ODI flows. These logs are maintained in the ODI_Error_Records directory, which is available under PIP_HOME directory.

18.6.10 Adding File permissions

Add read,write and execute permissions for group, owner and others to all the files that are available under following folders:

- <AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/Agent_Files
- <AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/DVM_XMLS
- <AIA_HOME>/services/core/BulkDataProcess/OPSMtoEbiz/Product/ODI/Oracle/V1/ODI_Error_Records

18.7 Verifying Installation

To verify Serialization and Tracking: OPSM - EBS installation:

1. Open the log files from the following location and look for warnings and error messages:

- For Linux, Solaris SPARC, HP-UX and IBM AIX Based Systems: Review the install log located at <AIA_HOME>/aia_instances/<instance name>/logs to verify that the integration is successfully installed.
- For Microsoft Windows: Review the install log located at <AIA_HOME>\aia_instances\<instance name>\logs to verify that the integration is successfully installed.

2. Confirm that the Serialization and Tracking: OPSM - EBS components were successfully installed.
   a. Log in 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 **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for items listed below.

   - AdvanceShipmentNoticeEBS
   - CreateAdvanceShipmentNoticeListEbizJMSConsumer
   - CreateAdvanceShipmentNoticeListEbizJMSProducer
   - CreateAdvanceShipmentNoticeListEbizReqABCSImpl
   - CreateAdvanceShipmentNoticeListPASJMSProducer
   - CreateAdvanceShipmentNoticeListPASProvABCSImpl
   - CreateShipmentReceiptListEbizJMSConsumer
   - CreateShipmentReceiptListEbizJMSProducer
   - CreateShipmentReceiptListEbizReqABCSImpl
   - CreateShipmentReceiptListPASJMSProducer
   - CreateShipmentReceiptListPASProvABCSImpl
   - ItemLotEBS
   - ShipmentReceiptEBS
   - SyncItemLotListEbizJMSConsumer
   - SyncItemLotListEbizJMSProducer
   - SyncItemLotListEbizReqABCSImpl
   - SyncItemLotListPASJMSProducer
   - SyncItemLotListPASProvABCSImpl

3. Confirm that the Serialization and Tracking: OPSM - EBS queues (JMS) are installed.
   a. Log in to the **Administration Console**: *http://<server name>:<port number>/console*

      Log in with the server admin user name. For access details, contact the system administrator.
   b. Navigate to **soa_domain**, **Services**, **Messaging**, **JMS Modules**, **AIAJDBCJMSModule**.
   c. Verify that the following queues exist in the summary of **Resource** table.

- **AIA_EbizItemLotJMSQueue**: This queue is used between the SyncItemLotListEbizJMSProducer and SyncItemLotListEbizJMSConsumer.
- **AIA_EbizAdvanceShipmentNoticeJMSQueue**: This queue is used between the CreateAdvanceShipmentNoticeListEbizJMSProducer and CreateAdvanceShipmentNoticeListEbizJMSConsumer.
- **AIA_EbizShipmentReceiptJMSQueue**: This queue is used between the CreateShipmentReceiptListEbizJMSProducer and CreateShipmentReceiptListEbizJMSConsumer.
- **AIAEbizCF**: This connection factory is used to connect AIA_EbizItemLotJMSQueue, AIA_EbizAdvanceShipmentNoticeJMSQueue, and AIA_EbizShipmentReceiptJMSQueue.
- **AIAPASCF**: This connection factory is used to connect the JMS Queues that are available in the OPSM application which are OPSMLotSynchQueue and OPSMCreateTransactionQueue.

4. Confirm that the necessary configuration properties exist.
   a. Log in to AIA home. For example, *http://<host_name>:<port>/AIA/faces/aiaHomeLogin.jspx*.
   b. Navigate to **Setup**, **AIAConfiguration** and check that the following configuration properties are listed:
   - CreateShipmentReceiptListEbizReqABCSImpl
   - CreateShipmentReceiptListPASProvABCSImpl
   - CreateAdvanceShipmentNoticeListEbizReqABCSImpl
   - CreateAdvanceShipmentNoticeListPASProvABCSImpl
   - SyncItemLotListEbizReqABCSImpl
   - SyncItemLotListPASProvABCSImpl
5. Verify Integration Scenarios.
   a. Log in to AIA home. For example, *http://<host_name>:<port>/AIA/faces/home.jspx*.
   b. Find Project Lifecycle Workbench and click **Go**.
   c. On the AIA Project Lifecycle Workbench page, select industry as core and click **Search**.
   d. Click the link in the Bill Of Material column to view the following artifacts included in this integration.
   - AdvanceShipmentNoticeEBS
   - CreateAdvanceShipmentNoticeListEbizJMSConsumer
   - CreateAdvanceShipmentNoticeListEbizJMSProducer
   - CreateAdvanceShipmentNoticeListEbizReqABCSImpl
   - CreateAdvanceShipmentNoticeListPASJMSProducer
   - CreateAdvanceShipmentNoticeListPASProvABCSImpl
   - CreateShipmentReceiptListEbizJMSConsumer
   - CreateShipmentReceiptListEbizJMSProducer
   - CreateShipmentReceiptListEbizReqABCSImpl

- CreateShipmentReceiptListPASJMSProducer
- CreateShipmentReceiptListPASProvABCSImpl
- ItemLotEBS
- ShipmentReceiptEBS
- SyncItemLotListEbizJMSConsumer
- SyncItemLotListEbizJMSProducer
- SyncItemLotListEbizReqABCSImpl
- SyncItemLotListPASJMSProducer
- SyncItemLotListPASProvABCSImpl

6. Verify the following connections are accurate in the Physical Architecture tab.
   a. Launch **ODI Topology Manager** and navigate to **Physical Architecture** tab.
   b. Expand **XML** node under **Technologies** and double click **LocationDS**.
   c. Click **JDBC** tab and check for the connection `<PVV_PIP_HOME>/DVM_XMLS/LOCATION.xml`.
   d. Similarly, find the following data servers based on the technology name.

Table 18–17 Verifying Data Servers for the Serialization and Tracking: OPSM - EBS

Data Servers	Technology
LocationDS	XML
WorkOrderStatusDS	XML
OracleEbizDS	Oracle
PASDS	Oracle
WorkRepDS	Oracle

7. Verify the context in the Contexts tab.
   a. Launch **ODI Topology Manager** and navigate to **Contexts** tab.
   b. Double click **EBIZ_01** and navigate to **Schemas** tab.

Table 18–18 Verifying Context in the Serialization and Tracking: OPSM - EBS

Context	Description
EBIZ_01	Holds the correlation between logical schemas and physical ones. Verify the following schema association is set up. You may see more schemas than the one that is here. The integration processes ignore these additional schemas. Location OracleEbiz PAS WorkOrderStatus WorkRep

8. Verify the following Logical Data Servers are imported in the Logical Architecture tab.
   a. Launch **ODI Topology Manager** and navigate to **Logical Architecture** tab.
   b. Expand **XML** node and double click **Location** logical schema.
   c. Select **Definition** tab and verify that the `EBIZ_01` context has the `LocationDS` physical schema associated with it.
   d. Similarly, find the following logical data servers based on the technology.

Table 18–19 Verifying Logical Data Servers for the Serialization and Tracking: OPSM - EBS

Logical Schema	Technology
Location	XML
WorkOrderStatus	XML
OracleEbiz	Oracle
PAS	Oracle
WorkRep	Oracle

9. Launch the **ODI Designer** and verify that the **OracleEbiz To PAS Model** folder is imported in the **Models** tab. Expand the **OracleEbiz To PAS Model** folder and verify that the following models are present:
   - Location DVM Model
   - OracleEbiz Model
   - PAS Model
   - Work Order Status Model
10. Launch the **ODI Designer** and verify that the **OracleEbiz To PAS Project** project is imported in the **Project** tab. Expand the **OracleEbiz To PAS Project** project and verify that the following project folders are present:
   - OracleEbiz To PAS Bulk Lot Folder
   - OracleEbiz To PAS Product Serialization Folder
   - OracleEbiz To PAS Product Synchronization Folder
   a. Expand the **OracleEbiz to PAS Product Synchronization** folder.
   b. Double-click the **Load Location DVM XML** procedure.
   c. Double-click the command **Load Location DVM** in the **Details** tab.
   d. Under **Definition** tab, click **Command** on **Source** sub tab.
   e. Verify that the path to **LOCATION.xml** is accurate.
   f. Using the same procedure verify the path for the Load Work Order Status DVM XML.
11. Verify that the WSDL URL for the **InvokeAIASyncErrorHandling** step name is accurate for the **AIAAsyncErrorHandlingBPELProcess** in the **Load OracleEbiz DiscreteMfg Bulk Lot Data to PAS** package.
   a. Launch **ODI Designer**.
   b. Navigate to **Projects** tab.

c. Expand the **OracleEbiz To PAS Bulk Lot Folder**.

d. Double click **Load OracleEbiz DiscreteMfg Bulk Lot Data to PAS Pkg**.

e. Select the **Diagram** tab.

f. Click the **InvokeAIAAsyncErrorHandling** icon.

g. In the **Properties** frame under the **General** tab verify that the WSDL URL user and password are accurate.

12. Verify that the error log location for the Error Notitication Step is accurate in the Load OracleEbizDiscreteMfg Bulk Lot Data to PAS Package.

a. Click **Email Notification** step in **Load OracleEbiz DiscreteMfg Bulk Lot Data To PAS** package.

b. In the properties frame under the **General** tab verify that the attachment url is accurate.

13. Verify the OPSM database connection in the Load Error Records step.

a. Double click the **Load Error Log** step in the **Load OracleEbiz DiscreteMfg Bulk Lot to PAS Pkg**.

b. In the properties frame under the **General** tab verify that the JDBC URL is pointing to OPSM database.

14. Repeat steps 10 - 13 for all the packages under the following folders.

- OracleEbiz To PAS Bulk Lot Folder
- OracleEbiz To PAS Product Serialization Folder

18.7.1 Validating Security Policies

All SOA composites are protected by the Global Policies provided by Foundation Pack as defined in the Security section of the Foundation Pack Developer's Guide. Additionally, individual services for this integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to **EM Console**.
2. Navigate to **Weblogic domain, soa_domain**. In the window to the right, select the **WebLogic Domain** dropdown, then navigate to **Web Services**, **Policies**.
3. Verify **Service Policy** attachment.

a. Find the service policy in the list of policies.

b. Click the number in **Attachment Count** column.

Ths **Usage Analysis** screen appears.

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 **Client Policy** attachment.

a. Navigate back to the **Policies** screen and find the client policy.

b. Click the number in **Attachment Count** column.

Ths **Usage Analysis** screen appears.

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 18–20 No Authentication Service Policy Attachments for Serialization and Tracking: OPSM - EBS

Composite	Service Policy
CreateAdvanceShipmentNoticeListEbizJMSProducer	oracle/no_authentication_service_policy
CreateShipmentReceiptListEbizJMSProducer	oracle/no_authentication_service_policy
SyncItemLotListEbizJMSProducer	oracle/no_authentication_service_policy

Table 18–21 Saml or Username or Http Opt On Client Policy Attachments for Serialization and Tracking: OPSM - EBS

Composite	Reference	Client Policy
CreateAdvanceShipmentNoticeListEbizReqABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON
CreateAdvanceShipmentNoticeListEbizProvABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON
CreateShipmentReceiptListEbizReqABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON
CreateShipmentReceiptListEbizProvABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON
SyncItemLotListEbizReqABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON
SyncItemLotListPASProvABCSImpl	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss_saml_or_username_or_http_token_service_policy_OPT_ON

For more information about security validation, see *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0)*, "Working with Security."

For implementation, see *Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite 3.1 - Implementation Guide*.

18.8 Undeploying Serialization and Tracking: OPSM - EBS

To undeploy the Serialization and Tracking: OPSM - EBS from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the undeployment command for your platform.

Table 18–22 Undeployment command for Serialization and Tracking: OPSM - EBS

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/OPSMtoEbiz/DeploymentPlans/OPSMtoEbizUndeployDP.xml -l <AIA_HOME>/pips/OPSMtoEbiz/DeploymentPlans/OPSMtoEbizUndeployDP.log`
Microsoft Windows	`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\OPSMtoEbiz\DeploymentPlans\OPSMtoEbizUndeployDP.xml -l <AIA_HOME>\pips\OPSMtoEbiz\DeploymentPlans\OPSMtoEbizUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 21, "Uninstalling Oracle AIA".

19

Installing Workforce Administration for PeopleSoft HR

This chapter discusses how to install Workforce Administration for PeopleSoft HR. This chapter includes the following sections:

- Section 19.1, "Software Requirements"
- Section 19.2, "Configuration Wizard Interview"
- Section 19.3, "Installing Workforce Administration for PeopleSoft HR"
- Section 19.4, "Verifying Installation"
- Section 19.5, "Undeploying the Workforce Administration for PeopleSoft HR"

19.1 Software Requirements

Workforce Administration for PeopleSoft HR requires:

- PeopleSoft HCM 9.0 with PeopleSoft PeopleTool 8.49.19 or higher with resolutions in the following order:
  1. ##794934 (PeopleSoft Enterprise Components resolution for PeopleSoft HR 9.0.)
  2. #807695 (Core Human Resources 9.0 resolution.)
  3. #807603 (Oracle Workforce Administration for PeopleSoft HR integration pack resolution for 9.0)
  4. #846903 (Suppress Empty Tags 9.0 Resolution)
  5. #846892 (Add WLS JMS Routing Support 9.0 Resolutions)
  6. #838207 (Phase II Application Integration Frame work changes 9.0 Resolution)
  7. #845270 (Full Sync Integration Utility 9.0 Resolution)
- PeopleSoft HCM 9.1 with PeopleSoft PeopleTool 8.50 or higher with resolutions in the following order:
  1. #839932 (Phase II Application Integration Frame work changes)
  2. #847033 (Core Human Resources 9.1 resolution.)
  3. #825749 (Oracle Workforce Administration for PeopleSoft HR integration pack 9.1.)
  4. #845585 (Suppress Empty Tags 9.1 Resolution)
  5. #846893 (Add WLS JMS Routing Support 9.1 Resolutions)

6. #845434 (Full Sync Integration Utility 9.1 Resolution)

After applying the resolutions using PeopleSoft Change Assistant, refer to Enterprise PeopleTools PeopleBook: PeopleSoft Integration Broker for instructions to set up web services, including defining routing for service operations.

19.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of Workforce Administration for PeopleSoft HR. Enter the details of Workforce Administration for PeopleSoft HR screen screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

19.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 19–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

19.2.2 PeopleSoft HCM Web Services Information Details Screen

Use this screen to enter details related to PeopleSoft HCM Web Services instance.

The screen contains the following fields:

Table 19–2 PeopleSoft HCM Web Services Information Details Screen Fields

Field	Description
Host Name	This value is the host name for the web service provided by PeopleSoft. To find this value, contact the PeopleSoft system administrator. Example: `rtas245.peoplesoft.com` Host Name is _____
Port Number	This value is the port for the web service provided by PeopleSoft. To find this value, contact the PeopleSoft system administrator. Example: `7501` Port Number is _____
Default Local Node	This value is the default local node for the specific instance of PeopleSoft. This value is unique to the instance of PeopleSoft and enables the PeopleSoft Gateway to identify the application server to which it should route the web service request. Example: `E900B20` Default Local Node is _____

19.3 Installing Workforce Administration for PeopleSoft HR

This section discusses the integration installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your integration using the configuration wizard.
3. Deploy the integration to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

19.3.1 Install the Workforce Administration for PeopleSoft HR

To install the Workforce Administration for PeopleSoft HR:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 19–3 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

19.3.2 Configure the Workforce Administration for PeopleSoft HR

The screens that appear prompt you to enter the data that is required for successful configuration of Workforce Administration for PeopleSoft HR. Keep the completed worksheets of Workforce Administration for PeopleSoft HR screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Workforce Administration for PeopleSoft HR:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select **Workforce Administration for PeopleSoft HR**
8. Click **Next**.

19.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

19.3.2.2 Specify PeopleSoft HCM Web Services Information Details

To specify PeopleSoft HCM Web Services Information details:

1. Enter information about your PeopleSoft HCM installation in the **PeopleSoft HCM Web Services Information Details** screen.
2. Click **Next.**

19.3.2.3 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 19.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

19.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

19.3.4 Deploying Workforce Administration for PeopleSoft HR

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
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 19–4 Deployment commands for the Workforce Administration for PeopleSoft HR

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>/pips/HCMPWP/DeploymentPlans/HCMPWPDP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <AIA_HOME>/pips/HCMPWP/DeploymentPlans/HCMPWP.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\HCMPWP\DeploymentPlans\HCMPWPDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -l <AIA_HOME>\pips\HCMPWP\DeploymentPlans\HCMPWPDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project

Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

19.4 Verifying Installation

To verify the Workforce Administration for PeopleSoft HR installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 Workforce Administration for PeopleSoft HR 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below.
   - PersonEBS
   - PersonPeopleSoftJMSConsumer
   - SyncPersonListPeopleSoftReqABCSImpl
   - SyncTalentProfileContentItemListPeopleSoftReqABCSImpl
   - SyncTalentProfileContentTypeListPeopleSoftReqABCSImpl
   - SyncTalentProfileInstanceQualifierSetListPeopleSoftReqABCSImpl
   - SyncTalentProfileListPeopleSoftReqABCSImpl
   - SyncTalentProfileTypeListPeopleSoftReqABCSImpl
   - SyncWorkerListPeopleSoftReqABCSImpl
   - TalentProfileContentItemEBS
   - TalentProfileContentItemPeopleSoftJMSConsumer

- TalentProfileContentTypeEBS
- TalentProfileContentTypeEBSPeopleSoftJMSConsumer
- TalentProfileEBS
- TalentProfileInstanceQualifierSetEBS
- TalentProfileInstanceQualifierSetPeopleSoftJMSConsumer
- TalentProfilePeopleSoftJMSConsumer
- TalentProfileTypeEBS
- TalentProfileTypePeopleSoftJMSConsumer
- WorkerEBS
- WorkerPeopleSoftJMSConsumer

3. Navigate to the **SOA Composer**. Verify that you can see Workforce Administration PIP Domain Value Maps in the **Maps** tab:

- ADDRESS_COUNTRYID
- ADDRESS_HOUSE_TYPE_CODE
- ADDRESS_SITE_TYPE_CODE
- ADDRESS_USE_CODE
- CITIZENSHIP_STATUS_CODE
- CURRENCY_CODE
- CURRENCYEXCHANGE_CONVERSIONTYPECODE
- HOURS_FREQUENCY_CODE
- LANGUAGE_CODE
- MARITAL_STATUS
- PERSON_COMMUNITY_BACKGROUND_CODE_NETHERLAND
- PERSON_COMMUNITY_BACKGROUND_DETERMINATION_METHOD_CODE
- PERSON_COUNTRY_NAME_FORMAT_CODE
- PERSON_DEPENDENT_BENEFICIARY_EDUCATION_LEVEL_CODE
- PERSON_DEPENDENT_BENEFICIARY_FAMILY_ALLOWANCE_TERMINATION_CODE
- PERSON_DEPENDENT_BENEFICIARY_FISCAL_SITUATION_CODE
- PERSON_DEPENDENT_BENEFICIARY_PLAN_CODE
- PERSON_DEPENDENT_BENEFICIARY_PLAN_TYPE_CODE
- PERSON_DEPENDENT_BENEFICIARY_RELATIONSHIP_CODE
- PERSON_DEPENDENT_BENEFICIARY_RIDER_CODE
- PERSON_DEPENDENT_BENEFICIARY_SPOUSE_PROFESSION_CODE
- PERSON_DEPENDENT_BENEFICIARY_TYPE_CODE
- PERSON_DEPENDENT_BENEFICIARY_VACCINE_DOSE_CODE
- PERSON_EMAIL_ADDRESS_TYPE_CODE

- PERSON_ETHNIC_GROUP_CODE_UNITED_KINGDOM
- PERSON_GENDER_CODE
- PERSON_HIGHEST_EDUCATION_LEVEL_CODE
- PERSON_LAST_NAME_PREFERENCE_CODE
- PERSON_NAME_FORMAT_CODE
- PERSON_NAME_PREFIX_CODE
- PERSON_NAME_ROYAL_PREFIX_CODE
- PERSON_NAME_ROYAL_SUFFIX_CODE
- PERSON_NAME_SUFFIX_CODE
- PERSON_NAME_TYPE_CODE
- PERSON_NATIONAL_IDENTITY_TYPE_CODE
- PERSON_PERSON_OF_INTEREST_TYPE_CODE
- PERSON_SAMEN_CATEGORY_CODE_NETHERLAND
- PERSON_TITLE_CODE
- PERSON_VISA_DURATION_TYPE_CODE
- PERSON_VISA_PERMIT_TYPE_CODE
- PERSON_VISA_SUPPORT_DOCUMENT_CODE
- PERSON_VISA_WORK_PERMIT_STATUS_CODE
- PERSON_WORKER_TYPE_CODE_SINGAPORE
- PHONE_TYPE_CODE
- STATE
- TALENTPROFILECONTENTITEM_COMPETENCY_CATEGORY_CODE
- TALENTPROFILECONTENTITEM_DEGREE_LEVEL_CODE_CAN
- TALENTPROFILECONTENTITEM_DEGREE_LEVEL_CODE_FPS
- TALENTPROFILECONTENTITEM_EDUCATION_LEVEL_CODE
- TALENTPROFILECONTENTITEM_EDUCATION_LEVEL_CODE_NVQ
- TALENTPROFILECONTENTITEM_FIELD_OF_STUDY_CODE_DEU
- TALENTPROFILECONTENTITEM_RELATIONSHIP_CODE
- TALENTPROFILECONTENTITEM_SATISFACTION_METHOD_CODE
- TALENTPROFILECONTENTITEM_SUB_COMPETENCY_LEVEL_CODE
- TALENTPROFILECONTENTITEM_TYPE_OF_STUDY_CODE_DEU
- TALENTPROFILECONTENTTYPE_DISPLAYOPTIONCODE
- TALENTPROFILEINSTANCEQUALIFIERSET_TYPE_CODE
- TALENTPROFILETYPE_CONTENT_CATALOG_TYPE
- TALENTPROFILETYPE_SECTION_CONTENT_PROPERTY_SOURCE
- TALENTPROFILETYPE_STATUS_CODE
- TALENTPROFILE_CREDIT_HOUR_TYPE

- TALENTPROFILE_EDUCATION_LEVEL_AUSTRALIA
- TALENTPROFILE_HIGHER_EDUCATION_LEVEL_AUSTRALIA_PUBLIC_SECTOR
- TALENTPROFILE_ITEM_IMPORTANCE_CODE
- TALENTPROFILE_ITEM_SOURCE_CODE
- TALENTPROFILE_ITEM_VERIFICATION_METHOD_CODE
- TALENTPROFILE_MAJOR_CATEGORY_CODE_JAPAN
- TALENTPROFILE_NATIONAL_VOCATIONAL_QUALIFICATIONS_STATUS_CODE_UK
- TALENTPROFILE_RELATIONSHIP_TYPE_CODE
- TALENTPROFILE_USAGE_CODE
- TALENTPROFILE_WORKFLOW_STATUS_CODE
- WORKER_ABSENCE_SYSTEM_CODE
- WORKER_ACCOUNT_CODE
- WORKER_ACTION_REASON_CODE
- WORKER_ACTION_REFERENCE_CODE
- WORKER_APPOINTMENT_TYPE_CODE
- WORKER_ASSIGNMENT_TYPE_CODE
- WORKER_AS_OF_DATE_OVERRIDE_CODE
- WORKER_BARGAINING_UNIT_CODE
- WORKER_BAS_GROUP_REFERENCE_CODE
- WORKER_BENEFITS_STATUS_CODE
- WORKER_BENEFITS_SYSTEM_CODE
- WORKER_BENEFIT_PROGRAM_CODE
- WORKER_BUSINESS_UNIT_CODE
- WORKER_CIVIL_SERVICE_CATEGORY_FRENCH_PUBLIC_SECTOR_CODE
- WORKER_CIVIL_SERVICE_FRENCH_PUBLIC_SECTOR_CODE
- WORKER_CLASSIFICATION_CODE
- WORKER_CLASSIFIED_UNCLASSIFIED_CODE
- WORKER_COMPANY_CODE
- WORKER_COMP_FREQ_CODE
- WORKER_COMPENSATION_RATE_CODE
- WORKER_COMPENSATION_RATE_GROUP_CODE
- WORKER_CONTRACT_CHANGE_PRORATION_CODE
- WORKER_CONTRACT_SALARY_TYPE_CODE
- WORKER_CORPS_CODE
- WORKER_DEMOTION_CODE
- WORKER_DEPARTMENT_CODE

- WORKER_DUTIES_TYPE_CODE
- WORKER_EARNINGS_CODE
- WORKER_EARNINGS_DISTRIBUTION_TYPE_CODE
- WORKER_EEO_CLASS_CODE
- WORKER_EMPLOYEE_CATEGORY_CODE
- WORKER_EMPLOYEE_CLASS_CODE
- WORKER_EMPLOYEE_STATUS_CODE
- WORKER_EMPLOYEE_SUBCATEGORY2_CODE
- WORKER_EMPLOYEE_SUBCATEGORY_CODE
- WORKER_EMPLOYEE_TYPE_CODE
- WORKER_ESTABLISHMENT_ID_CODE
- WORKER_ESTABLISHMENT_ID_UNITED_STATES_CODE
- WORKER_EXTERNAL_COMPANY_CODE
- WORKER_EXTERNAL_DEPARTMENTT_CODE
- WORKER_EXTERNAL_SUPERVISOR_LEVEL_CODE
- WORKER_FICA_STATUS_CODE
- WORKER_FLSA_STATUS_CODE
- WORKER_FUNCTION_CODE
- WORKER_GLOBAL_PAYROLL_ELIGIBILITY_GROUP_CODE
- WORKER_GLOBAL_PAYROLL_PAYGROUP_CODE
- WORKER_HIRE_STATUS_CODE
- WORKER_HOLIDAY_SCHEDULE_CODE
- WORKER_HOME_HOST_CLASS_CODE
- WORKER_HOURS_TYPE_CODE
- WORKER_INSTANCE_STATUS_CODE
- WORKER_INTERCOMPANY_TRANSFER_CODE
- WORKER_INTER_CENTRE_WORKS_COUNCIL_CODE
- WORKER_JOB_SOURCE_CODE
- WORKER_LABOR_AGREEMENT_CODE
- WORKER_LABOR_FACILITY_CODE
- WORKER_LABOR_TYPE_CODE
- WORKER_LAYOFF_EXEMPTION_CODE
- WORKER_OCCUPATION_CODE
- WORKER_OCCUPATION_SPAIN_CODE
- WORKER_OFFICER_CODE
- WORKER_PART_TIME_TYPE_CODE
- WORKER_PAYGROUP_CODE

- WORKER_PAYROLL_STATUS_CODE
- WORKER_PAYROLL_SYSTEM_CODE
- WORKER_PERFORMANCE_GROUP_CODE
- WORKER_POINT_TYPE_CODE
- WORKER_POSITION_NUMBER_CODE
- WORKER_PRIMARY_INDICATOR_CODE
- WORKER_PROBATIONARY_PERIOD_CODE
- WORKER_PRODUCTIVE_UNIT_CODE
- WORKER_PROVIDER_REFERENCE_CODE
- WORKER_RATE_SOURCE_CODE
- WORKER_REDUCED_WEEK_CODE
- WORKER_REGULATORY_REGION_CODE
- WORKER_SALARY_PLAN_CODE
- WORKER_SALARY_TYPE_MEXICO_CODE
- WORKER_SANCTION_CODE
- WORKER_SECONDMENT_TIME_CODE
- WORKER_SECONDMENT_TYPE_CODE
- WORKER_SEFIP_CATEGORY_CODE
- WORKER_SHIFT_CODE
- WORKER_SOCIAL_SECURITY_RISK_CODE
- WORKER_SPECIAL_HIRE_CODE
- WORKER_SPOKESMEN_COMMITTEE_GERMANY_CODE
- WORKER_SUPERVISOR_LEVEL_CODE
- WORKER_TARIFF_AREA_GERMANY_CODE
- WORKER_TARIFF_GERMANY_CODE
- WORKER_TAX_BASIS_CODE
- WORKER_TIPPED_CODE
- WORKER_TURNOVER_ACTION_CODE
- WORKER_TURNOVER_ACTION_ITALY_CD
- WORKER_TYPE_CODE
- WORKER_TYPE_MEXICO_CODE
- WORKER_UNION_CODE
- WORKER_UNION_PARTICIPATION_CODE
- WORKER_UNION_POSITION_CODE
- WORKER_WORKING_TIME_PERCENT_CODE
- WORKER_WORKS_COUNCIL_FUNCTION_CODE

For implementation, see *Oracle Workforce Administration Integration Pack for PeopleSoft Human Resources 3.1 - Implementation Guide*.

19.5 Undeploying the Workforce Administration for PeopleSoft HR

To undeploy the integration from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 19–5 Undeployment command for Workforce Administration for PeopleSoft HR

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/HCMPWP/DeploymentPlans/HCMPWPUndeployDP.xml -l <AIA_HOME>/pips/HCMPWP/DeploymentPlans/HCMPWPUndeployDP.log`
Microsoft Windows	`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\HCMPWP\DeploymentPlans\HCMPWPUndeployDP.xml -l <AIA_HOME>\pips\HCMPWP\DeploymentPlans\HCMPWPUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

20

Installing the Utilities Field Work PIP

This chapter discusses how to install the Utilities Field Work PIP. This chapter includes the following sections:

- Section 20.1, "Software Requirements"
- Section 20.2, "Configuration Wizard Interview"
- Section 20.3, "Installing the Utilities Field Work PIP"
- Section 20.4, "Verifying Installation"
- Section 20.5, "Undeploying the Utilities Field Work PIP"

20.1 Software Requirements

The Utilities Field Work PIP requires:

- Oracle Utilities Customer Care and Billing - 2.3.1 with Service Pack 1 (11675360)
- Oracle Utilities Work and Asset Management 1.9.0.1 with Patch 11729236
- Oracle Utilities Mobile Workforce Management 2.0.1.3 with Patch 11728648 or Oracle Utilities Mobile Workforce Management 1.5.0.11
- Oracle Utilities Real Time Scheduler Planner 10.3.14 (required for MWM 1.5.0.11 only)
- Oracle Utilities Resource Manager version 4.2.21 (required for MWM 1.5.0.11 only)

20.2 Configuration Wizard Interview

The configuration wizard screens prompt you to enter the data required for successful configuration of the Utilities Field Work PIP. Enter the details of the Utilities Field Work PIP screens below, take a printout and keep it ready when you run the configuration wizard. This enables faster and error free configuration.

20.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components will be deployed to the PIP server. This screen contains the following fields.

Table 20–1 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. 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. Example: `7001`. The Admin Port is _____
Domain Name	This is WebLogic server domain corresponding to the Admin Server. Example: `domain1` The Domain Name is _____
Admin User	This value is the WebLogic admin username. 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 with 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.

20.2.2 Oracle Utilities Customer Care and Billing Server Details Screen

Use this screen to enter details related to Oracle Utilities Customer Care and Billing server.

The screen contains the following fields:

Table 20–2 Oracle Utilities Customer Care and Billing Server Details Screens Fields

Field	Description
CCB XAI Service URL	This value is the location of the Customer Care and Billing web service. Example: `http://abc.oracle.com:8500/spl/XAIApp/xaiserver/` CCB XAI Service URL is _____
CCB Username	This value is the user ID of the Customer Care and Billing user authorized to invoke web services used in the integration. CCB Username is _____

Table 20–2 (Cont.) Oracle Utilities Customer Care and Billing Server Details Screens

Field	Description
CCB User Password	This value is the password for the user specified above. CCB User Password is _____

20.2.3 Oracle Utilities Work and Asset Management Server Details Screen

Use this screen to enter details related to Oracle Utilities Work and Asset Management server.

The screen contains the following fields:

Table 20–3 Oracle Utilities Work and Asset Management Server Details Screen Fields

Field	Description
WAM Service URL	This value is the location of the Work and Asset Management web service. Example: `http://abc.us.oracle.com:7779/DV19X/synergen/services/` WAM Service URL is _____
WAM Username	This value is the user ID of the Work and Asset Management user authorized to invoke web services used in the integration. WAM Username is _____
WAM User Password	This value is the password for the user specified above. WAM User Password is _____

20.2.4 Oracle Utilities Mobile Workforce Management Server Details Screen

Use this screen to enter details related to Oracle Utilities Mobile Workforce Management server. Depending on the Oracle Utilities Mobile Workforce Management application version you are using, follow the screen details for that version.

The screen contains the following fields:

20.2.4.1 Oracle Utilities Mobile Workforce Management Server Details Screen (Version 1.x)

Table 20–4 Oracle Utilities Mobile Workforce Management Server Details Screen Fields (Version 1.x)

Field	Description
MWM Service URL	This value is the location of the Mobile Workforce Management web service. Example: `http://abc.oracle.com:7989/SPLWebService/SPLMWMService.asmx` MWM Service URL is _____

Table 20–4 (Cont.) Oracle Utilities Mobile Workforce Management Server Details Screen Fields (Version 1.x)

Field	Description
MWM Username	This value is the user ID of the Mobile Workforce Management user authorized to invoke web services used in the integration MWM Username is _____
MWM User Password	This value is the password for the user specified above. MWM User Password is _____
MWM Appointment Booking Service URL	This value is the location of the Mobile Workforce Management Appointments plug-in. Example: `http://appointment-ert-demo-server:8080/MWMIM/services/` MWM Appoint Booking Service URL is _____
MWM Appointment Booking Username	This value is the user ID of the MWM user authorized to invoke appointment service used in the integration MWM Appoint Booking Username is _____
MWM Appointment Booking Password	This value is the password for the user specified above MWM Appoint Booking Password is _____

Note: MWM Username and Password for both server and appointment booking are not used in the 1.x version, but are reserved for future use.

20.2.4.2 Oracle Utilities Mobile Workforce Management Server Details Screen (Version 2.x)

Table 20–5 Oracle Utilities Mobile Workforce Management Server Details Screen Fields (Version 2.x)

Field	Description
MWM Service URL	This value is the location of the Mobile Workforce Management web service. Example: `http://abc.oracle.com:8300/ouaf/XAIApp/xaiserver/` MWM Service URL is _____
MWM Username	This value is the user ID of the Mobile Workforce Management user authorized to invoke web services used in the integration MWM Username is _____

Table 20–5 (Cont.) Oracle Utilities Mobile Workforce Management Server Details Screen Fields (Version 2.x)

Field	Description
MWM User Password	This value is the password for the user specified above. MWM User Password is _____ _____
MWM Appointment Booking Service URL	
MWM Appointment Booking Username	
MWM Appointment Booking Password	

Note: MWM Appointment Booking URL, MWM Appointment Booking Username and MWM Appointment Booking Password are not valid of 2.x version. Leave these blank.

20.3 Installing the Utilities Field Work PIP

This section discusses the PIP installation process. The installation process has three steps:

1. Install the PIPs and direct integrations that are shipped with this release.
2. Configure your PIP using the configuration wizard.
3. Deploy the PIP to the Fusion Middleware server.

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 (11.1.1.4.0)* in My Oracle Support, download the latest version and install it. This guide is constantly updated and bug fixed.

20.3.1 Install the Utilities Field Work PIP

To install the Utilities Field Work PIP:

1. Download **Oracle Application Integration Architecture Release 3.1 (V24698-01)** from edelivery.
2. Unzip **V24698-01.zip**.
3. Navigate to **cd/Disk1**.
4. Follow the launch instructions for your platform. The following table lists the commands that you must use based on your platform.

Table 20–6 Launching the PIP Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	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	Double-click setup.exe

Installer launches **Welcome** screen.

5. Click **Next**.
6. Select AIA Home where Foundation Pack is installed.
7. Click **Install**.
8. Exit installer once installation is complete.
9. Verify that the PIPManifest.xml file exists under <AIA_HOME>/pips.

20.3.2 Configure the Utilities Field Work PIP

The screens that appear prompt you to enter the data that is required for successful configuration of the Utilities Field Work PIP. Keep the completed worksheets of the Utilities Field Work PIP screens ready before you launch the configuration wizard.

Note: If you are harvesting content to OER, perform the first three steps. Else start from step 4.

To configure the Utilities Field Workd PIP:

1. Navigate to */slot/emsxxxx/oracle/Middleware/user_projects/domains/soa_domain/bin/* and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.
2. Replace WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".
3. Bounce the server.
4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
5. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh` for Linux based systems and `aiaconfig.bat` for Microsoft Windows.

   This launches the AIA Configuration Wizard.
6. Click **Next.**
7. Select the **Utilities Field Work PIP**
8. Click **Next**.

20.3.2.1 Specify PIP Server Details

To specify PIP Server details:

1. Enter information related to your PIP server in the **PIP Server Details** screen.
2. Click **Next**.

20.3.2.2 Specify Utilities Mobile Workforce Management Services Details

To specify Utilities Mobile Workforce Management Services details:

1. Enter information about your Utilities Mobile Workforce Management Services installation in the **Utilities Mobile Workforce Management Services Details** screen.
2. Click **Next.**

20.3.2.3 Specify Utilities Work and Asset Management Services Details

To specify Utilities Work and Asset Management Services details:

1. Enter information about your Utilities Work and Asset Management Services installation in the **Utilities Work and Asset Management Services Screen Details** screen.
2. Click **Next.**

20.3.2.4 Specify Utilities Customer Care and Billing Services Details

To specify Utilities Customer Care and Billing Services details:

1. Enter information about your Utilities Customer Care and Billing Services installation in the **Utilities Customer Care and Billing Services Details** screen.
2. Click **Next.**

20.3.2.5 Complete Configuration

To complete configuration:

1. Review the configuration information on the **Configuration Summary** screen.

   Note: If you want to make changes to the configuration, use the navigation pane on the left and select the screen you want to edit.

   You can create a response file based on the input provided in the configuration wizard and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 20.3.3, "Configuring using the Response File". Click **Save Response File** button and save the response file with the name and location of your choice.

2. Click **Configure** to accept the configuration.

   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 **Configuration Progress** screen.

3. When the configuration process completes without errors, the AIA Configuration Wizard displays the **Configuration Complete** screen.
4. Click **Finish** to close the configuration wizard.

20.3.3 Configuring using the Response File

To configure using the response file:

1. Open the response file.

   When you create a response file through 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 command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
4. Navigate to <AIA_HOME>/bin and run the command `./aiaconfig.sh <Response File Location and Name>` for Linux based systems and `aiaconfig.bat <Response File Location and Name>` for Microsoft Windows.

20.3.4 Deploying the Utilities Field Work PIP

To deploy the PIP to Fusion Middleware server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platoform.

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 20–7 Deployment commands for the Utilities Field Work PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`ant -f <AIA_ HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>/pips/FieldWork/DeploymentPlans/FieldWorkDP.xml -DPropertiesFile=<AIA_ HOME>/aia_instances/<aia_ instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>/pips/FieldWork/DeploymentPlans/FieldWorkSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>/pips/FieldWork/DeploymentPlans/FieldWorkConditionalPolicy.xml -l <AIA_ HOME>/pips/FieldWork/DeploymentPlans/FieldWork.log`
Microsoft Windows	`ant -f <AIA_ HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>\pips\FieldWork\DeploymentPlans\FieldWorkDP.xml -DPropertiesFile=<AIA_ HOME>\aia_instances\<aia_ instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>\pips\FieldWork\DeploymentPlans\FieldWorkSupplementaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>\pips\FieldWork\DeploymentPlans\FieldWorkConditionalPolicy.xml -l <AIA_ HOME>\pips\FieldWork\DeploymentPlans\FieldWorkDP.log`

Review the log file in the location specified in the command to verify successful deployment.

Oracle AIA ships artifacts in AIA Lifecycle Workbench which can be used in your integrations. These artifacts are created using FMW technologies such as BPEL and Mediator and are natively supported by AIA Foundation Pack tools such as Project Lifecycle Workbench, Harvester, Deployment Generator, AIA Deployment Driver (ADD). These are called native artifacts and they include SOA artifact types such as composites, DataSources, DVM, xRef, and so on. These artifacts can be modified or new natively supported artifacts can be added using the AIA Lifecyle Workbench and a BOM.xml file can be generated.

AIA PIP development teams, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, integration may require artifacts such as, Java applications, Shell Scripts, ANT based build scripts which constitute part of integration landscape in addition to the artifacts that are delivered by AIA. AIA also supports deployment of these supplementary artifacts. However, you need to modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, refer to *Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.4.0), "Generating Deployment Plans and Deploying Artifacts"*.

20.4 Verifying Installation

To verify the Utilities Field Work PIP installation:

1. Open the log files from the following location and look for warnings and error messages:
   - For Linux, Solaris SPARC, HP-UX and IBM AIX 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 Utilities Field Work PIP 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. Farm_soa_domain, SOA, soa-infra, Default and look for items listed below. Oracle Utilities Mobile Workforce Management v1.x and v2.x have a few composites in common and a few that are unique to each version.
   - **Common Composites**
   - CCBGetMeterDataProvService
   - CreateCustomerInteractionOUCCBUtilitiesProvABCSImpl
   - CreateCustomerInteractionOUWAMUtilitiesReqABCSImpl
   - CreateInvoiceOUCCBUtilitiesJMSConsumer
   - CreateInvoiceOUCCBUtilitiesJMSProducer
   - CreateInvoiceOUCCBUtilitiesProvABCSImpl
   - CreateInvoiceOUWAMUtilitiesReqABCSImpl
   - CreateTimeSheetOUWAMUtilitiesProvABCSImpl
   - GetWOLineApptWinAvailOUCCBUtilitiesReqABCSImpl
   - ProcessWorkOrderCompleteOUWAMUtilitiesReqABCSImpl
   - ProcessWorkOrderCreateOUWAMUtilitiesReqABCSImpl
   - ProcessWorkOrderOUCCBUtilitiesJMSConsumer
   - ProcessWorkOrderOUCCBUtilitiesJMSProducer
   - ProcessWorkOrderOUCCBUtilitiesProvABCSImpl
   - ProcessWorkOrderOUCCBUtilitiesReqABCSImpl
   - ProcessWorkOrderOUMWMUtilitiesJMSProducer
   - ProcessWorkOrderOUWAMUtilitiesJMSConsumer
   - ProcessWorkOrderOUWAMUtilitiesJMSProducer

- ProcessWorkOrderOUWAMUtilitiesProvABCSImpl
- ProcessWorkOrderResponseOUCCBUtilitiesProvABCSImpl
- ProcessWorkOrderResponseOUWAMUtilitiesProvABCSImp
- ProcessWorkOrderUpdateOUWAMUtilitiesReqABCSImpl
- TimeSheetEBS
- UtilitiesCustomerInteractionEBS
- UtilitiesCustomerInteractionResponseEBS
- UtilitiesInstalledProductEBSV2
- UtilitiesInvoiceEBSV2
- UtilitiesWorkOrderEBS
- UtilitiesWorkOrderResponseEBS
- ValidateInstalledProductOUCCBUtilitiesProvABCSImpl
- ValidateInstalledProductOUWAMUtilitiesReqABCSImpl
- WAMGetMeterDataReqService
- **MWM Version 1.x Composites**
- CreateTimeSheetOUMWMUtilityReqABCSImpl
- GetWOLineApptWinAvailOUMWMUtilitiesProvABCSImpl
- ProcessWorkOrderCompleteOUMWMUtilitiesReqABCSImpl
- ProcessWorkOrderCreateOUMWMUtilitiesReqABCSImpl
- ProcessWorkOrderOUMWMUtilitiesJMSConsumer
- ProcessWorkOrderOUMWMUtilitiesJMSProducer
- ProcessWorkOrderOUMWMUtilitiesProvABCSImpl
- ProcessWorkOrderResponseOUMWMUtilitiesProvABCSImpl
- ProcessWorkOrderResponseOUMWMUtilitiesReqABCSImpl
- ProcessWorkOrderStatusOUMWMUtilitiesReqABCSImpl
- ValidateInstalledProductOUMWMUtilitiesReqABCSImpl
- **MWM Version 2.x Composites**
- GetWOLineApptWinAvailOUMWMUtilitiesProvABCSImplV2
- ProcessWorkOrderCompleteOUMWMUtilitiesReqABCSImplV2
- ProcessWorkOrderCreateOUMWMUtilitiesReqABCSImplV2
- ProcessWorkOrderCreateOUMWMUtilitiesReqABCSImplV2
- ProcessWorkOrderOUMWMUtilitiesJMSConsumerV2
- ProcessWorkOrderOUMWMUtilitiesJMSProducer
- ProcessWorkOrderOUMWMUtilitiesProvABCSImplV2
- ProcessWorkOrderResponseOUMWMUtilitiesProvABCSImplV2
- ProcessWorkOrderStatusOUMWMUtilitiesReqABCSImplV2
- ValidateInstalledProductOUMWMUtilitiesReqABCSImplV2

3. Navigate to **Farm_soa_domain**, **Weblogic Domain**, right click <domain name>, **Security**, **Credentials**, **oracle.wsm.security** and verify the items listed below:
   - OU_CCB_01
   - OU_MWM_01
   - OU_WAM_01

For PIP implementation, see *Oracle Process Integration Pack for Oracle Utilities Field Work 3.1 - Implementation Guide*.

20.5 Undeploying the Utilities Field Work PIP

To undeploy the PIP from Fusion Middleware Server:

1. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 20–8 Undeployment command for the Utilities Field Work PIP

Platform	Undeployment Command
Linux Solaris SPARC IBM AIX Based Systems. HP-UX	`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/FieldWork/DeploymentPlans/FieldWorkUndeployDP.xml -l <AIA_HOME>/pips/FieldWork/DeploymentPlans/FieldWorkUndeployDP.log`
Microsoft Windows	`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\FieldWork\DeploymentPlans\FieldWorkUndeployDP.xml -l <AIA_HOME>\pips\FieldWork\DeploymentPlans\FieldWorkUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the PIP following the instructions in Chapter 21, "Uninstalling Oracle AIA".

21

Uninstalling Oracle AIA

This chapter discusses how to uninstall the PIPs and uninstall PIP specific artifacts. This chapter includes the following sections:

- Section 21.1, "Uninstalling PIPs using AIA Deinstaller"
- Section 21.2, "Uninstalling Siebel CRM to OIC ODI Artifacts"
- Section 21.3, "Uninstalling Financials Ops Control: Oracle Retail - PSFT PIP ODI Artifacts"
- Section 21.4, "Uninstalling VCP Base Pack Integration"
- Section 21.5, "Verifying Uninstall Processes"

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

21.1 Uninstalling PIPs using AIA Deinstaller

To uninstall PIPs using AIA Deinstaller:

1. Browse to **AIA_PIP_Install_media/cd/Disk1**.
2. Launch **Installer.**

   Follow the launch instructions for your platform.

Table 21–1 Launch Instructions for AIA Installer

Platform	To launch the Oracle AIA Installer:
Linux Solaris SPARC IBM AIX Based Systems HP-UX	At the command line prompt, enter: `./runInstaller -invPtrLoc <SOA/.HOME>/oraInst.loc -deinstall -jreloc <location of the jre specific to your operating system. This directory should have /bin/java>`
Microsoft Windows	At the command line prompt, enter: `setup.exe`

   AIA Installer launches the **Welcome** screen.

3. AIA Installer launches the **Inventory** screen.

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

4. Select and expand **AIA_HOME** from the **List of Products**.
5. Select the **Application Integration Architecture PIPS 3.1.0.0.0** option.
6. Click **Remove**.
7. Select **Yes** in the **Confirmation** screen to continue Deinstall.
8. Click **Close** to close the **Inventory** screen and the AIA Installer.

21.2 Uninstalling Siebel CRM to OIC ODI Artifacts

This section discusses uninstalling the ODI artifacts of the Siebel CRM to OIC integration. It includes:

- Section 21.2.1, "Uninstalling Siebel CRM to OIC ODI Artifacts"
- Section 21.2.2, "Deleting the Work Repository"

21.2.1 Uninstalling Siebel CRM to OIC ODI Artifacts

To uninstall the ODI artifacts, you use the Topology Navigator in Oracle Data Integrator Studio.

To uninstall Siebel CRM to OIC ODI artifacts:

1. Open the Topology Navigator.
2. Expand the **Projects** accordion, and delete the following projects:
   - SiebelCRMToEbizOICSalesOrderProject
   - SiebelCRMToEbizORMProject
3. Expand the **Models** accordion, and delete the following model:
   - SiebelCRMToEbizModelFolder
4. Expand the **Physical Architecture** accordion, and delete the following data sources:
   - AIAConfigurationProperties
   - AIADS
   - EbizDS
   - SiebelDS
   - OICBUToPreProcessFlagDVM
   - OICCountryDVM
   - OICCurrencyDVM
   - OICSalesOrderActionCodeDVM
   - OICStateDVM
   - OICUnitOfMeasureDVM
5. Expand the **Contexts** accordion, and delete the following context:

- SiebelCRMToEbizOICContext

6. Expand the **Logical Architecture** accordion, and delete the following logical schemas:
   - AIAConfigurationProperties
   - ESB_XREF
   - EbizOIC
   - OICBUToPreProcessFlagDVM
   - OICCountryDVM
   - OICCurrencyDVM
   - OICSalesOrderActionCodeDVM
   - OICStateDVM

21.2.2 Deleting the Work Repository

To delete the work repository, you use the Topology Navigator in Oracle Data Integrator Studio.

To delete the work repository:

1. In the Topology Navigator, go to the **Repositories** panel.
2. Expand the **Work Repositories** node, and right-click the work repository you want to delete, for example, `SIEBELCRMOIC`.
3. Select **Delete**.
4. In the **Confirmation** dialog, click **Yes**.

The work repository is detached from the master repository and is deleted from the Repositories panel in the Topology Navigator.

If this ODI work repository contains only the Siebel CRM to OIC integration code, then the database user can be dropped from the database. To drop the database user, ask your database administrator for assistance.

21.3 Uninstalling Financials Ops Control: Oracle Retail - PSFT PIP ODI Artifacts

To uninstall the ODI artifacts, you use the Topology Navigator in Oracle Data Integrator Studio.

To uninstall Financials Ops Control: Oracle Retail - PSFT PIP ODI artifacts from the work repository:

1. Open the Topology Navigator.
2. Expand the **Projects** accordion, and delete the following projects:
   - RMS To PSFT Acct Entry Project
   - ReIM To PSFT Acct Entry Project
   - ReIM to PeopleSoft Invoice Project
3. Expand the **Models** accordion, and delete the following models:
   - Oracle Retail To PeopleSoft

- RMS To PeopleSoft Accounting Entry
- ReIM To PSFT Invoice
- ReIM To PeopleSoft Accounting Entry

If this ODI work repository contains only the Financials Ops Control: Oracle Retail - PSFT PIP code, then the database user can be dropped from the database. To drop the database user, ask your database administrator for assistance.

To uninstall Financials Ops Control: Oracle Retail - PSFT PIP ODI artifacts from the master repository:

1. Open the Topology Navigator.
2. Expand the **Physical Architecture** accordion, and delete the following data sources:
   - **IBM DB2 UDB Technology:** PSFT_DB2_DS

     Note: You can delete the IBM DB2 UDB data source only if PeopleSoft is installed on an IBM DB2 database.

   - **Oracle Technology:**
   - AIA SCHEMA DS
   - ORACLE RETAIL DS
   - PEOPLESOFT DS
   - **XML Technology:**
   - AIA Configurations Properties DS
   - Business Unit AP DS
   - Business Unit GL
   - Currency Code DS
   - Exchange Rate Type DS
3. Expand the **Contexts** accordion, and delete the following contexts:
   - RELT_TO_PSFT
   - RETL_TO_PSFT_DB2*

     Note: You can delete the **RETL_TO_PSFT_DB2** context only if PeopleSoft is installed on an IBM DB2 database.

4. Expand the **Logical Architecture** accordion, and delete the following logical schemas:
   - **IBM DB2 UDB Technology:** PSFT_DB2_LogicalSchema
   - **Oracle Technology:**
   - ESB_XREF
   - PeopleSoft
   - Retail

- **XML Technology:**
- AIAConfigSchema
- Business Unit AP
- BusinessUnitGL
- Currency
- Exchange Rate

  If you are reinstalling the PIP, it is recommended you uninstall the PIP ODI Artifacts prior to running the installation.

21.4 Uninstalling VCP Base Pack Integration

OUI installer does not completely uninstall VCP Base Pack Integration.

To completely uninstall Oracle VCP Base Pack Integration:

1. If the master repository is set up for VCP Base Pack Integration, drop the master repository schema.
2. If the master repository is used for other PIPs, manually delete all ODI Artifacts that are specific to VCP Base Pack Integration as specified in the Verifying Installation chapter.
3. Drop the VCP Base Pack Integration work repository schema.

WARNING: When you manually delete ODI artifacts, do not delete objects with the names FILE_GENERIC, XML_GEO_DIM, FILE_DEMO_SRC, or XML_DEMO_GEO from the physical and logical architecture tabs in the Topology Manager.

21.5 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 Oracle AIA Installer did not automatically remove.

Also identify associated BPEL and ESB services and confirm that these services are no longer shown in the BPEL and ESB consoles. See Verifying the Installation chapter for instructions on how to access the BPEL and ESB consoles.

For more information about which services are associated with which delivered components, see the Oracle Application Integration Architecture - Foundation Pack 3.1: Core Infrastructure Components Guide.

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