Oracle® Application Integration Architecture

Installation and Upgrade Guide for Pre-Built Integrations

Release 11.5

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Documentation for administrators that describes the installation, configuration and deployment process for the integrations released in Oracle Application Integration Architecture (AIA) Pre-Built Integrations 11.5, including Communications Pre-Built Integrations, Master Data Management (MDM) Pre-Built Integrations, Agile Product Lifecycle Management (PLM) Pre-Built Integrations as well as 3.1.1 Process Integration Packs (PIP) and Direct Integrations (DI). This guide provides an overview of the installation process for the AIA media pack, the software requirements for each integration as well as detailed steps to complete the install process successfully. Each integration has a specific configuration and deployment chapter for easy reference. The upgrade and uninstall steps are located in the final chapters of this guide.

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Oracle Application Integration Architecture Installation and Upgrade Guide for Pre-Built Integrations, Release 11.5

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Preface

Welcome to *Oracle Application Integration Architecture Installation and Upgrade Guide for Pre-Built Integrations Release 11.5*.

What's New in this Guide

- The Oracle Application Integration Architecture Installation and Upgrade Guide for Pre-Built Integrations is restructured into a general installation chapter with an individual configuration and deployment chapter for each pre-built integration.
- The term *process integration pack* is replaced with the term *pre-built integrations*.
- The implementation guides are restructured into two parts: design and set up.

  Part I - Design: This part provides functional overviews, activity diagrams, assumptions and constraints, and technical sequence diagrams and steps.

  Part II - Set up: This part provides prerequisites, data requirements, and configuration steps.
- Starting with this release, these integrations are no longer available:
  - Oracle Design to Release Integration Pack for Agile PLM Product Lifecycle Management and JD Edwards EnterpriseOne 11.1 (Design to Release: Agile-JDE E1)
  - Oracle Project Portfolio Management Integration Pack for Primavera P6 and E-Business Suite

Common Oracle AIA Pre-Built Integration Guides

Oracle Application Integration Architecture Pre-Built Integrations 11.5 includes the following guides shared by all products delivered with this release:

- Oracle Application Integration Architecture Installation and Upgrade Guide for Pre-Built Integrations Release 11.5

  This guide provides an overview of the installation process, including how to install, configure, and deploy your pre-built integrations. The steps required to upgrade your pre-built integrations to the latest release are also provided.
- Oracle Application Integration Architecture Pre-Built Integrations 11.1: Utilities Guide

  This guide describes:

  - How to work with and configure Session Pool Manager (SPM), which is a service in the Oracle SOA Suite web server whose primary function is to manage a pool of web server session tokens that can be reused by BPEL flows.
  - How to deploy and configure the AIACompositeScheduler. This is a utility component that is used by pre-built integrations to schedule a service-oriented architecture (SOA) composite to be invoked at the specified time interval.
- Oracle Application Integration Architecture Pre-Built Integrations 11.5: Product-to-Guide Index

  The Product-to-Guide index lists the guides that provide information for each product delivered in this release.

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.

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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.

Additional Resources

The following resources are also available:

- **Oracle Application Integration Architecture Foundation Pack:**

  Oracle AIA Pre-Built integrations require Foundation Pack 11.1.1.7.0 (RUP patch 17553612 or later) to be installed. Refer to the Foundation Pack documentation library on OTN to download the Foundation Pack guides at http://www.oracle.com/technetwork/middleware/foundation-pack/downloads/index.html.

- **Oracle Application Integration Architecture: Product-to-Guide Index:**

  Oracle Technology Network:
  http://www.oracle.com/technetwork/index.html

- **Known Issues and Workarounds:**

  My Oracle Support: https://support.oracle.com/

- **Release Notes:**

  Oracle Technology Network:
  http://www.oracle.com/technetwork/index.html

- **Documentation updates:**

  Oracle Technology Network:
  http://www.oracle.com/technetwork/index.html

What's New in This Guide for Release 11.5

For release 11.5, this guide has been updated in several ways. This table lists the sections that have been added or changed.

Chapter	Changes Made
Chapter 2, "Software Requirements"	Review this chapter to see specific participating application version requirements for your integrations.
Chapter 3, "Installing Pre-Built Integrations"	Review this chapter to see specific prerequisites required for installing your integrations.
Part II, "Configuring and Deploying Pre-Built Integrations"	Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release 11.3 and Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.3 are delivered in AIA 11.5 release.
Chapter 36, "Upgrading Pre-Built Integrations"	Review this chapter to see specific participating application upgrade requirements for your integrations.
Appendix A, "AIA Pre-Built Integrations Installer Screens"	Review this chapter to see changes in Application Integration Architecture (AIA) Pre-Built Integrations 11.5 Installer screens

Part I

Installing Pre-Built Integrations and AIA RV 3.1.1 PIPs and DIs

This part describes how to install the pre-built integrations and AIA RV 3.1.1 PIPs and DIs delivered in this release.

This part contains the following chapters:

- Chapter 1, "Understanding the Installation Process"
- Chapter 2, "Software Requirements"
- Chapter 3, "Installing Pre-Built Integrations"

1

Understanding the Installation Process

This guide provides an overview of the Oracle Application Integration Architecture (AIA) Pre-Built Integrations installation process that consists of installation, configuration and deployment.

This chapter includes the following sections:

- Section 1.1, "Pre-Built Integrations Installation"
- Section 1.2, "Cluster Installation"
- Section 1.3, "Pre-Built Integrations Configuration"
- Section 1.4, "Pre-Built Integrations Deployment"
- Section 1.5, "AIA Master Notes"

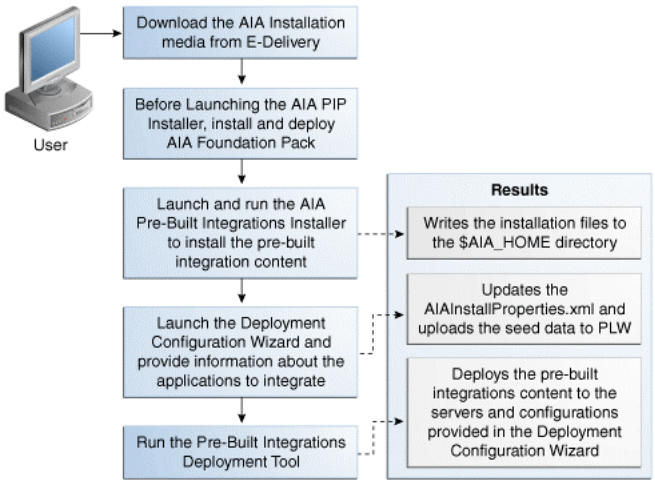
> **Note:** For information about how to migrate 2.5 pre-built integrations to the 11.5 version, see *Oracle Fusion Middleware Migration Guide for Oracle Application Integration Architecture Foundation Pack*.

1.1 Pre-Built Integrations Installation

Pre-Built Integrations installation consists of three stages:

- Installation
- Configuration
- Deployment

Figure 1–1 Flow of the Pre-Built Integrations Installation



AIA Pre-Built Integrations Installer is built on *Oracle Universal Installer* (OUI) and enables you to install products included in Oracle AIA. AIA Pre-Built Integrations Installer is platform independent.

Pre-built integrations include multiple integration types:

- Direct Integrations
- Process Integration Packs
- Partial Process Integration Packs

The Pre-Built Integrations 11.5 release delivers *Direct Integrations* (DI) and *Process Integration Packs* (PIP).

AIA Pre-Built Integrations Installer contains all the pre-built integrations as individual components, but does not install them individually. The AIA Pre-Built Integrations Installer lays down the pre-built integrations files inside AIA_HOME and installs all the components in the media pack.

You can also use AIA Pre-Built Integrations Installer to uninstall Oracle AIA.

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

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

For details about the DCW, see Section 1.3, "Pre-Built Integrations Configuration".

For details about the configuration information required for your pre-built integrations, see the applicable pre-built integrations chapters in Part II, "Configuring and Deploying Pre-Built Integrations" and Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs"of this guide.

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

For more details about Deployment, see Section 1.4, "Pre-Built Integrations Deployment"

For more details about the deployment information required for your pre-built integrations, see the applicable pre-built integrations chapters in Part II, "Configuring and Deploying Pre-Built Integrations" and Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs"of this guide.

1.2 Cluster Installation

AIA Pre-Built Integrations Installer enables you to deploy the pre-built integration content directly to an existing AIA Foundation Pack cluster. You must successfully set up the AIA Foundation Pack cluster before attempting to deploy pre-built integrations on the cluster.

For more information on how to set up your Foundation Pack cluster see, *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack*.

AIA PIPs and DIs (and AIA Foundation Pack) deploy to cluster nodes that are configured during the underlying SOA cluster setup.

Depending on how the SOA cluster is set up, the AIA PIPs and DIs deploy in different ways. The most common deployment options are:

- Cluster nodes can be spread across different physical servers. This option is the most common for production deployments as it provides high-availability and is the Oracle recommended topology per the Enterprise Deployment Guide.
- Cluster nodes can be present in the same physical server. This option provides increased throughput for the same hardware.

For more information on how to set up your SOA cluster, see *Oracle Fusion Middleware Enterprise Deployment Guide for Oracle SOA Suite*.

During the installation process, PIPs and DIs deploy to all nodes of the cluster in one flow. Repeating the steps provided in the guide on all nodes of the cluster is not required.

When providing the SOA server details on the AIA Foundation Pack Installer, the cluster name automatically appears in the list of available managed servers.

The Foundation Pack installation creates and configures a unique AIA Instance which identifies the cluster as a whole.

The PIP or DI is configured and deployed to this unique created AIA Instance. The complete configuration and deployment is directly targeted to the cluster as a whole.

AIA products deploy to all nodes of the SOA cluster. Additional nodes can be added to an existing SOA cluster.

Before you proceed to install and configure AIA PIPs or DIs to the cluster, check the successful setup of your SOA cluster and AIA Foundation Pack cluster setup by accessing appropriate URLs, such as Oracle Enterprise Manager, weblogic console and

AIA Home page from all the nodes participating in the cluster. Additional tests like sample deployments can also be done to ensure that the cluster setup is indeed working well.

1.3 Pre-Built Integrations Configuration

Oracle AIA DCW helps you configure the PIPs and DIs that are delivered in the pre-built integrations release. The screens that appear when you run the DCW are based on whether you choose to configure single or multiple pre-built integrations. This sections includes an overview of the configuration options available.

When you configure a pre-built integrations, DCW prompts for pre-built integrations specific information. For more information about the configuration information required for your pre-built integrations, see the applicable pre-built integrations chapters in Part II, "Configuring and Deploying Pre-Built Integrations" and Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs".

When you configure multiple pre-built integrations, the following occurs:

> **Note:** The configuration screen sequence described in the specific pre-built integrations configuration and deployment chapters is based on the assumption that you are configuring a pre-built integrations for the first time, and that you are configuring one pre-built integrations at a time.

- When multiple pre-built integrations are selected for configuration at the same time, and these pre-built integrations have one or more common participating applications, DCW queries for common details only one time.

  For example, if integration1 and integration2 both connect to Oracle E-Business Suite, then the information for this participating application is collected one time.

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

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

1.3.1 Routing Rules Configuration in Enterprise Business Services

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

When you deploy a single pre-built integrations, the *Enterprise Business Services* (EBS) for that integration are deployed with all default routing rules delivered by Oracle AIA.

When you deploy multiple pre-built integrations (Comms pre-built integration and Core PIP) at the same time, the EBS that are used by multiple pre-built integrations do not get deployed. You must manually configure the routing rules to suit the functional

scenario for the combination of the pre-built integrations. However, the routing rules that were delivered through only one of pre-built integrations get deployed.

For more information about using and extending routing rules, see *Oracle Fusion Middleware Developer's Guide for Oracle SOA Suite*, "Creating Mediator Routing Rules".

Note: Customers who are installing the Comms Agent Assisted Billing Care Pre-Built Integration and the Communications Order to Cash Pre-Built Integration do not have to perform this task.

Customers who are installing MDM Customer base along with one or more options pre-built integrations, do not have to perform this task when only MDM customer pre-built integrations are being deployed.

Customers who are installing MDM Product base along with one or more options pre-built integrations, do not have to perform this task when only MDM product pre-built integrations are being deployed.

The routing rules for the same EBS delivered through other integrations 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 Oracle AIA routing rules and the associated Oracle AIA configuration properties, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*.

Note: For EBS that are not shared between the pre-built integrations, all the default routing rules delivered with the pre-built integrations are deployed.

1.3.2 Installation, Configuration and Deployment Topologies

There are several installation and deployment topologies possible using AIA Pre-Built Integrations Installer. Choose the installation that best suits your needs. For more details, see the whitepaper *AIA Installation and Deployment -Strategies, Topologies and Flexibilities* on `http://www.oracle.com/index.html`.

Only one instance of each participating application can participate in any given direct or process integration when configured through the DCW. After installing using AIA Pre-Built Integrations Installer, you can configure pre-built integrations to connect to multiple instances. You must customize the deployment commands to configure the specific pre-built integrations to connect to multiple instances. DCW does not support this configuration.

1.4 Pre-Built Integrations Deployment

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

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

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

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

1.4.1 Pre-Built Integrations Codeployment

PIPs or DIs that do not belong to the same pre-built integrations group can be codeployed. For example, the Order to Cash: Siebel CRM - EBS and Customer Master Data Management Pre-Built Integrations. Before you install multiple PIPs or DIs on a single SOA instance, see the *Oracle Application Integration Architecture PIP Functional Interoperability Configuration Guide* and check whether your PIP or DI combination is supported on a single instance.

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

1.4.2 Pre-Built Integrations Security Policies

AIA Pre-Built Integration composites are protected by Oracle Web Services Manager (WSM) security policies by default. In this release, the minimum protection provided by AIA services is authentication. The default policies are automatically applied when the integration is deployed, using either of the following strategies:

1. Global security policies are automatically attached to all composites matching the AIA naming conventions.
2. Local security policies are automatically attached to composites whose security requirements differ from the global policy or whose name does not match the AIA naming conventions.

For more information on how Global and Local security policies are attached during deployment, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Working with Security".

1.4.2.1 Default Security Policies

AIA recommends hardening the services with message protection in the production environment. Before attempting to modify the default security policies, you must understand the Oracle WSM policy configuration and the global and local deployment strategies completely. Changes to the default policies without proper understanding could impact the integration's expected behavior.

AIA does not recommend disabling default policies completely.

For more information see *Oracle Fusion Middleware Security and Administrator's Guide for Web Services*.

1.4.2.2 Security Policy Validation

Validating that the default security policies are correctly deployed before running the integration is recommended.

For more information on how to validate the security policies for your integrations, see the latest applicable implementation guide.

1.4.3 Pre-Built Integrations Un-Deployment

To un-deploy a pre-built integrations, you must un-deploy the PIPs or DIs included in it. The un-deployment of a PIP or DI is done through the un-deployment plan. The un-deployment plan and the configured AIAInstallProperties.xml are passed as parameters to AID for un-deployment.

For more details about the un-deployment information required for your integrations, see the applicable PIP or DI chapters in Part II, "Configuring and Deploying Pre-Built Integrations" and Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs" of this guide.

1.5 AIA Master Notes

AIA master notes provide you with a one-stop reference point for all the documentation available for your pre-built integrations. AIA master notes are stored on My Oracle Support (MOS) [`https://support.oracle.com`]. To find a specific master note, search in MOS using the note ID.

Note 1318600.1 is the main master note for the AIA 11.5 release and includes links to pre-built integration specific master notes. The specific master notes for each pre-built integration include links to:

- Installation pre-requisites
- Certification matrix
- Software downloads and required patches
- Release notes
- Implementation guide
- Known issues and workarounds

Before starting the installation process, review the master note for your specific pre-built integration.

2

Software Requirements

This chapter specifies the software requirements for all the integrations included in the *Oracle Application Integration Architecture Installation and Upgrade Guide for Pre-Built Integrations*. To make sure you meet the requirements before installation, see your integration-specific section in this chapter.

> **Note:** Install AIA Foundation Pack before you install the integrations. Search for *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack* in My Oracle Support, download and install Foundation Pack 11.1.1.7, RUP patch 17553612 or later. This guide is constantly updated and bug fixed.

This chapter includes the following sections:

- Section 2.1, "Comms Agent Assisted Billing Care: Siebel CRM - BRM Pre-Built Integration"
- Section 2.2, "Comms Revenue Accounting: BRM - EBS Pre-Built Integration"
- Section 2.3, "Comms Order to Cash: Siebel CRM, OSM, and BRM Pre-Built Integration"
- Section 2.4, "Comms Order to Cash: Siebel CRM and BRM Pre-Built Integration"
- Section 2.5, "Comms Order to Cash: Siebel CRM and OSM Pre-Built Integration"
- Section 2.6, "Customer MDM Base Pack"
- Section 2.7, "Customer MDM: Siebel CRM"
- Section 2.8, "Customer MDM: EBS"
- Section 2.9, "Customer MDM: Comms BRM"
- Section 2.10, "Customer MDM Routing Rules"
- Section 2.11, "Customer MDM: Match Fetch Enterprise Composite Application"
- Section 2.12, "Product MDM: EBS"
- Section 2.13, "Product MDM Base Pack"
- Section 2.14, "Product MDM: Design Studio"
- Section 2.15, "Product MDM: Comms BRM"
- Section 2.16, "Product MDM: Siebel CRM"
- Section 2.17, "Product MDM Routing Rules"

- Section 2.18, "Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release"
- Section 2.19, "Agile Product Lifecycle Management Integration Pack for SAP"
- Section 2.20, "Oracle Process Integration Pack for Oracle Utilities Field Work"
- Section 2.21, "Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy"
- Section 2.22, "Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy"
- Section 2.23, "Design to Release: Agile PLM for Process - OPM PIP"
- Section 2.24, "Order to Cash: Siebel CRM - EBS PIP"
- Section 2.25, "Siebel CRM to OIC Integration"
- Section 2.26, "Lead to Order: CRM OD - EBS PIP"
- Section 2.27, "LSP Financial Mgmt: OTM - EBS PIP"
- Section 2.28, "LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"
- Section 2.29, "LSP Driver Mgmt: OTM - EBS PIP"
- Section 2.30, "Value Chain Planning Integration Base Pack"
- Section 2.31, "Project Portfolio Mgmt: Primavera P6 - JDE E1"
- Section 2.32, "Serialization and Tracking: OPSM - EBS"

2.1 Comms Agent Assisted Billing Care: Siebel CRM - BRM Pre-Built Integration

The Comms Agent Assisted Billing Care: Siebel CRM - BRM Pre-Built Integration requires:

- Siebel CRM 8.1.1.x FP with ACR 474 and ADR 722.

> **Note:** See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

- BRM 7.4 MPS1 (PS patch 12754752) or BRM 7.5 PS3 (PS patch 14706286) with interim patch 16216254.
- ODI 11.1.1.6
- BRM JCA Adapter
- Patch 16489777

2.2 Comms Revenue Accounting: BRM - EBS Pre-Built Integration

The Comms Revenue Accounting: BRM - EBS Pre-Built Integration requires one of the following:

- EBS 12.1.3
- EBS 12.1.1 or 12.1.2 (additional seed data patch 8344349 required for both versions)
- EBS 11.5.10 (additional seed data patch 6012471)

And this Pre-Built Integration requires:

- BRM 7.4 MPS1 (PS patch 12754752) or BRM 7.5 PS3 (PS patch 14706286) with interim patch 16216254.
- ODI 11.1.1.6

2.3 Comms Order to Cash: Siebel CRM, OSM, and BRM Pre-Built Integration

The Comms Order to Cash: Siebel CRM, OSM, and BRM Pre-Built Integration requires:

- Siebel CRM 8.1.1.x FP with ACR 474 and ADR 722.

> **Note:** See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

- BRM 7.4 MPS1 (PS patch 12754752) or BRM 7.5 PS3 (PS patch 14706286) with interim patch 16216254.
- OSM 7.2.0.4 (patch 14614332)
- OSM O2A 2.0.1 Cartridge
- BRM 7.5 PS3 JCA Adapter

> **Note:** The BRM JCA adapter version must match with the BRM installation version. If you are using BRM 7.5 PS3, then you must use BRM 7.5 PS3 JCA Adapter.

- Patch 16483496

2.4 Comms Order to Cash: Siebel CRM and BRM Pre-Built Integration

The Comms Order to Cash: Siebel CRM and BRM Pre-Built Integration requires:

- Siebel CRM 8.1.1.x with ACR 474 and ADR 722.

> **Note:** See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

- BRM 7.4 MPS1 (PS patch 12754752) or BRM 7.5 PS3 (PS patch 14706286) with interim patch 16216254.
- BRM 7.5 PS3 JCA Adapter
- Patch 16489781

2.5 Comms Order to Cash: Siebel CRM and OSM Pre-Built Integration

The Comms Order to Cash: Siebel CRM and OSM Pre-Built Integration requires:

- Siebel CRM 8.1.1.x FP with ACR 474 and ADR 722.

Note: See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

- OSM 7.2.0.4 (patch 14614332)
- OSM O2A 2.0.1 Cartridge
- Patch 16484023

2.6 Customer MDM Base Pack

The Customer MDM Base Pack requires:

- Oracle Customer Hub (Siebel UCM) 8.1.1.x with ACR 437,ACR 475A, and ACR475B.
- SOA patch 14104016

Note: See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

2.7 Customer MDM: Siebel CRM

The Customer MDM: Siebel CRM requires Siebel CRM 8.1.1.x with ACR 474 and ADR 722 or 8.0.0.x with ACR 437.

Note: See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP or 8.0.0.x FP required for this release.

2.8 Customer MDM: EBS

The Customer MDM: EBS requires either Oracle E-Business Suite, version 12.1.1 or higher or Oracle E-Business Suite, version 11.5.10.CU2.

For more information on the patches you must apply for each version of Oracle E-Business Suite, see Table 2–1 or Table 2–2.

Table 2–1 Oracle E-Business Suite 12.1.1 Seed Data Patch

Product	My Oracle Support Patch Number	Description
TCA	8253604:R12.HZ.B	AIA: HZ_AIA_CUSTOM_PKG RAISES UNHANDLED EXP DUE TO QUERY MISSING ORG STRIPE

Note: The patch listed in Table 2–1 is required for EBS version 12.1.1. Higher versions do not require patches.

Table 2–2 Oracle E-Business Suite 11.5.10.CU2 Seed Data Patches

Product	My Oracle Support Patch Number	Description
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
Trading Community	7171816	BO API: GET_ORG_CUSTS_UPDATED RETURNS PL/SQL NUMERIC OR VALUE ERROR
Trading Community	7209179	TCA API ENHANCEMENT NEEDED FOR AIA MDM PROJECT (PERSON)
Trading Community	7510070	AIA MDM: SQL FILE TO CREATE SUSBCRIBERS TO PERSON CUSTBO EVENTS

2.9 Customer MDM: Comms BRM

The Customer MDM: Comms BRM requires BRM 7.4 MPS1 (PS 12754752) or BRM 7.5 PS3 with interim patch 16216254.

2.10 Customer MDM Routing Rules

The Customer MDM Routing Rules requires:

- Customer MDM Base Pack
- Any of the available Customer MDM Option packs (optional)

2.11 Customer MDM: Match Fetch Enterprise Composite Application

The Customer MDM: Match Fetch Enterprise Composite Application requires:

- Customer MDM Base Pack
- Any of the available Customer MDM Option packs (optional)

2.12 Product MDM: EBS

The Product MDM: EBS requires either Oracle E-Business Suite 11.5.10.2 , 12.1.1, 12.1.2 or 12.1.3.

For more information on the patches you must apply for each version of Oracle E-Business Suite, see Table 2–3 , Table 2–4 and Table 2–5.

Table 2–3 Oracle E-Business Suite 11.5.10.2 Seed Data Patches

Product	My Oracle Support Patch Number	Description
PLM	7563732	EBI: 11i EBIZ patch to support Agile PLM Integration Pack 2.5 for Oracle E-Business Suite: Design to Release
PLM	7450177	PATCH FOR BOM AIA BPEL OBJECTS

Table 2–4 Oracle E-Business Suite 12.1.1 Seed Data Patches

Product	My Oracle Support Patch Number	Description
PLM	8481493:R12.BOM.C	PATCH FOR BOM AIA BPEL OBJECTS

Table 2–5 Oracle E-Business Suite 12.1.3 Seed Data Patches

Product	My Oracle Support Patch Number	Description
PLM	8481493:R12.BOM.C	PATCH FOR BOM AIA BPEL OBJECTS
PLM	9945332:R12.INV.B	AGILE PLM - EBS PIP: This patch needs to be applied on top of EBS 12.1.2.
PLM	10397048:R12.INV.B	Consolidated patch for Item and BOM updation via ECO. This patch is for Agile-EBS PIP for 12.1.x release. This must be applied on top of patch 9945332:R12.INV.B
PLM	13370136:R12.INV.B	EBI:TRK:MULTIPLANGUGAE support in SYNCITEMFLOW
PLM	11654417:R12.ITM.C	In Oracle Product Hub, when updating an item using public api ego_item_pub.process_item(), if template_id is passed as FND_API.G_MISS_NUM, the api would complete successfully without an unexpected error.
PLM	10399014:R12.ITM.C	After application of this patch, EGO_ITEM_PUB.process_items API will not throw BOM_PARSE_ITEM_ERROR if template_id is FND_API.G_MISS_NUM.
PLM	11884886:R12.INV.B	Item synced to EBS has a ENGINEERING_DATE OF 1/1/4712 3:00:00
PLM	14210113:R12.INV.B	Need to add PRAGMA AUTONOMOUS TRANSACTION when setting NLS_LANG in WRAPPER

2.13 Product MDM Base Pack

The Product MDM Base Pack Pre-Built Integration requires Oracle Product Hub 12.1.3 or higher with the patch listed in Table 2–6.

Table 2–6 Oracle Product Hub 12.1.3 or Higher Patch

Product	My Oracle Support Patch Number	Description
Oracle Product Hub	13848985:R12.EGO.C	This patch provides rules enhancements (backport) for 12.1.3.
Oracle Product Hub	13775323:R12.EGO.C	This Patch is for PIM Publication WebServices on 12.1.3. The services are created using ODI 11g and WLS tech-stack . Please refer to metalink note 888696.1 section "Setting Up Oracle Data Integrator 11g Artifacts and Webservices for Oracle Product Hub" for configuring and deploying these services. Pre-requisite or Co-requisite which is not included with this patch: Patch can be applied only on top of release 12.1.3.Patch Applicable for versions/releases12.1.3
Oracle Product Hub	16175038:R12.EGO.C	This patch resolves the null pointer exception when publishing the ICC with its structure.
Oracle Product Hub	8481493:R12.BOM.C	Patch for BOM AIA BPEL objects
Oracle Product Hub	12749057:R12.EGO.C	After applying this patch, Item web service will publish in installed and base languages if a user does not provide any language information in the input payload. This patch can only be applied on top of Oracle E-Business Suite SCM Release 12.1.2.
Oracle Product Hub	14121048:R12.EGO.C	After applying this patch, Transaction Attribute date modified at Item revision will be available to Item output payload.

Table 2–6 (Cont.) Oracle Product Hub 12.1.3 or Higher Patch

Product	My Oracle Support Patch Number	Description
Oracle Product Hub	14333170:R12.EGO.C	This patch contains enhanced version of OPH Telco Library to support Multiple Pricelists.
Oracle Product Hub	13775323:R12.EGO.C(for ODI)	12.1.3: PIM Publication WEBSERVICES with ODI 11g and WLS techstack . This Patch is for PIM Publication WebServices on 12.1.3. The services are created using ODI 11g and WLS tech-stack.
Oracle Product Hub	14851479:R12.EGO.C (for ODI)	FREEFORM TRANSACTION ATTRIBUTES - ISSUES WITH END-TO-END PROCESS FLOW . You must ensure that ODI services muct be overridden and redeployed from this patch. The ItemCatelogCategory and Valueset ODI webservice must be redeployed from this patch.

2.14 Product MDM: Design Studio

The Product MDM : Design Studio integration requires Oracle Product Hub 12.1.3 or higher with the patch listed in the table listed below. Also, the Product MDM: Design Studio integration option needs the Communications Order to Cash PIP for the requester that gets invoked from Design Studio.

Table 2–7 Patch Details

Product	My Oracle Support Patch Number	Description
OPH	14408746:R12.EGO.C	This patch is for OPH Support for AIA(PIP) - Design Studio Integration. This patch accomplish two features: ■ Ability to get the current active version C parameters passed: ICC parent hierarchy (y/n) name ■ As soon as a Product class (Item Catalog Category) is published in Product hub, the Service Mapping Specialist needs to be notified that a Product class is published.
OSM	Patch 14614332: OSM 7.2.0.4.0	This patch is for Oracle Communications Order and Service Management and used in OPH Support for AIA(PIP) - Design Studio Integration.

2.15 Product MDM: Comms BRM

The Product MDM: Comms BRM requires BRM 7.4 MPS1 (PS 12754752) or BRM 7.5 PS3 with interim patch 16216254 and patch 16488403

2.16 Product MDM: Siebel CRM

The Product MDM: Siebel CRM requires Siebel CRM 8.1.1.x with ACR 474 and ADR 722.

Note: See the AIA Certification Matrix for the minimum Siebel CRM 8.1.1.x FP required for this release.

2.17 Product MDM Routing Rules

The Product MDM Routing Rules requires:

- Product MDM Base Pack
- Any of the available Product MDM Option packs (optional)

2.18 Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release

The Design to Release: Agile - EBS / PIM Pre-Built Integration requires:

- Agile Product Lifecycle Management release 9.3.3, 9.3.2, 9.3.1.2, 9.3.1.1 or 9.3.1.
- 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 9.3 with patch 10011995.
  - Agile Product Lifecycle Management releases 9.3.1 with patch 10276397.
- If Agile is running on WLS, you must select **Enable Global Trust** between the weblogic domains: Agile and FMW.

  For more information on configuring security for a WebLogic domain, see *Oracle Fusion Middleware Securing Oracle WebLogic Server*.

  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.

- Add the following patches for Variant Management (VM):
  - If you are using VM and Agile 9.3.1, then apply patch # 10288124.
  - If you are using VM and Agile 9.3.1.2 is running on WLS, then apply patch # 14458989.
  - If you are using VM and Agile 9.3.2, then apply patch # 16733804.

  Note: VM is not supported in Agile 9.3.0.2.

  For more information about deploying the Design to Release: Agile - EBS / PIM Pre-Built Integration extensions, see *Deploying the Design to Release: Agile - EBS / PIM PIP Components on the Agile PLM Server*.
- One of the listed Oracle E-Business Suite: Discrete Manufacturing with the seed data patches:
  - EBS Release (R) 12 - 12.2.2 + 14769523:R12.INV.C + 17237771:R12.INV.C + 17189026:R12.ITM.D
  - In EBS R12.1.0 or later versions - To deploy GenerateItenNumberService successfully in Agile-Ebiz PIP, you must install Oracle E-Business Suite Integrated SOA Gateway. For more information, see metalink note 556540.1 on My Oracle Support.
  - In EBS R12.2.0 or later versions - To deploy GenerateItenNumberService successfully in Agile-Ebiz PIP, you must install Oracle E-Business Suite Integrated SOA Gateway. For more information, see metalink note 1311068.1 on My Oracle Support.
  - EBS R12 - 12.1.1 + 9335882:R12.INV.B, 9945332:R12.INV.B, 10172716:R12.INV.B, 10397048:R12.INV.B, 10632813:R12.OWF.B, 8640262:R12.INV.B,

8622332:R12.CZ.B (For Variant Management), 13893810:R12.INV.B, 8313714:R12.EGO.C, 18955663:R12.INV.B

– 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, 10172716:R12.INV.B, 10397048:R12.INV.B, 10632813:R12.OWF.B, 13893810:R12.INV.B, 8313714:R12.EGO.C, 18955663:R12.INV.B

  * For 12.1.2 with PIM option, apply the following additional patches - 9070077:R12.OWF.B, 9453520:R12.OWF.B

– EBS R12 - 12.1.3 +18955663:R12.INV.B,13370136:R12.INV.B, 10397048:R12.INV.B, 10172716:R12.INV.B, 9945332:R12.INV.B ,13893810:R12.INV.B and 14769523:R12.INV.B + 10632813:R12.OWF.B,10399014:R12.ITM.C, 11654417:R12.ITM.C, 14395360:R12.ITM.C, 13905125:R12.ITM.C

  * For 12.1.3 with VM, apply these additional patches 10009922:R12.CZ.B + 10009066:R12.FND.B.

Note: After applying the patches, restart the EBS server.

* Database: 11.2.0.1.0 + Patch 9140891 and 9488247

2.19 Agile Product Lifecycle Management Integration Pack for SAP

The Agile PLM Integration Pack for SAP requires:

- Agile Product Lifecycle Management release 9.3.2, 9.3.1.2, 9.3.1.1 or 9.3.1.
- Agile Product Lifecycle Management release 9.3.1.1 and earlier require 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 with patch 10011995.
  - Agile Product Lifecycle Management releases 9.3.1 with patch 10276397.
- If Agile is running on WLS, you must select **Enable Global Trust** between the weblogic domains: Agile and FMW.

  For more information on configuring security for a WebLogic domain, see *Oracle Fusion Middleware Securing Oracle WebLogic Server*.

  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.

- SAP- R/3 4.7 or ECC 6.0.

2.20 Oracle Process Integration Pack for Oracle Utilities Field Work

The Oracle Process Integration Pack for Oracle Utilities Field Work requires:

- Oracle Utilities Customer Care and Billing - 2.3.1 with Service Pack 1 (11675360) or Oracle Utilities Customer Care and Billing - 2.2.0 with Service Pack 9 (patch 2610362)
- 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, Oracle Utilities Mobile Workforce Management 2.1.0 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)
  - Oracle Utilities Resource Manager version 4.2.21 (required for MWM 1.5.0.11)

2.21 Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy

The Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy requires:

- Oracle Utilities Customer Care and Billing (OUCCB) version 2.3.1

  Patch 13403214 and prerequisites must be applied to the Oracle Utilities Customer Care and Billing application.

  Note: Patch 13403214 is included in OUCCB Service Pack 4.

- Siebel CRM 8116 FP + ACR474 + ACR756 QF0610 (CC&B ACR)
- SOA Patch for Bug 12895909 on PS4 - ADD NEW API CALLED "POPULATELOOKUPXREF"

2.22 Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy

The Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy requires:

- Oracle Utilities Customer Care and Billing (OUCCB) version 2.3.1.

  Patch 13403214 and prerequisites must be applied to the Oracle Utilities Customer Care and Billing application.

  Note: Patch 13403214 is included in OUCCB Service Pack 4.

- Siebel CRM 8116 FP + ACR474 + ACR756 QF0610 (CC&B ACR)

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

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

- 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 seed data 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

2.24 Order to Cash: Siebel CRM - EBS PIP

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 (FP Patch 12884885) 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
  - 8.1.1.6 (FP patch 13078549) with ACR 474 or 508
- Oracle E-Business Suite versions 11.5.10.2, 12.1.1, 12.1.2 , 12.1.3 or 12.2.1

  Apply patch 16686747:R12.CSI.C only for Oracle E-Business Suite version 12.2.1. For more information on the seed data patch you must apply for Oracle E-Business Suite version 12.2.1, see Table 2–8.

Table 2–8 Seed Data Patches for Oracle E-Business Suite R12.2.1

Product	My Oracle Support Patch Number	Description
Oracle Installed Base (csi)	16686747:R12.CSI.C	QRE1222.2:CSI.INV.1:INVALID OBJECTS FOUND BY AUTOBUILD

For more information on the seed data patches you must apply for each version of Oracle E-Business Suite, see Table 2–10 or Table 2–9.

- 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 11.1.1.5 plus patch 12837214.

  For more information on the patches you must apply to other versions of ODI, see Table 2–11.

Table 2–9 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.
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 2–10 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
Install Base/ALM/Asset	7239642	EVENTS NOT RAISED FOR STATUS UPDATE OF CHILD COMPONENTS IN PTO MODEL

Table 2–10 (Cont.) Seed Data Patches for Oracle E-Business Suite 11.5.10.2

Product	My Oracle Support Patch Number	Description
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 2–11 ODI 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 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. This patch helps ODI invoke secured web services using HTTP Basic Authentication.

2.25 Siebel CRM to OIC Integration

The Siebel CRM to OIC integration requires:

- Siebel SIA CRM 7.8.2.x, 8.0.0.x or 8.1.1.x.
- Oracle Data Integrator version 11.1.1.5 Java EE installation plus patch 12837214 or version 11.1.1.3.

  For more information on the patches you must apply to ODI 11.1.1.3, see Table 2–12.

- Oracle E-Business Suite R12.1.1, R12.1.2 or R12.1.3.

  For more information on the seed data patches you must apply to each version of Oracle E-Business Suite, see Table 2–13 or Table 2–14.

Table 2–12 ODI 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 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. This patch helps ODI invoke secured web services using HTTP Basic Authentication.

Table 2–13 Oracle E-Business Suite R12.1.1 Seed Data 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
Siebel CRM Integration to Oracle Incentive Compensation (sblcrmcn)	9010091	ONE-OFF PATCH FOR SIEBEL CRM INTEGRATION TO ORACLE INCENTIVE COMPENSATION 2.5

Table 2–14 Oracle E-Business Suite R12.1.2 and R12.1.3 Seed Data 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

2.26 Lead to Order: CRM OD - EBS PIP

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

- CRM On Demand release 16 or higher.
- Oracle E-Business Suite R12.1.3 with seed data patch 9924161:R12.ONT.B, R12.1.2, R12.1.1 or R11.5.10.2.

  For more information on the seed data patches you must apply to each version of Oracle E-Business Suite, see Table 2–15, Table 2–16 or Table 2–17.

Table 2–15 Oracle E-Business Suite R12.1.2 Seed Data 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

Table 2–16 Oracle E-Business Suite R12.1.1 Seed Data 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

Table 2–17 Oracle E-Business Suite R11.5.10.2 Seed Data Patches

Product	My Oracle Support Patch Number	Description
Advanced Product Catalog	10098682	11I.PLM_PF.E:CUMULATIVE ROLLUP PATCH E22
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: Must 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
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.

Table 2–17 (Cont.) Oracle E-Business Suite R11.5.10.2 Seed Data Patches

Product	My Oracle Support Patch Number	Description
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
Trading Community	7171816	BO API: GET_ORG_CUSTS_UPDATED returns PL/SQL Numeric or Value Error
Trading Community	8769578	11510 Ebis Environment Patch

2.27 LSP Financial Mgmt: OTM - EBS PIP

The LSP Financial Mgmt: OTM - EBS PIP requires:

- Oracle E-Business Suite R12.1.2 or Oracle E-Business Suite R12.1.3
- Oracle Transportation Management 6.1.1 or Oracle Transportation Management 6.2.

Table 2–18 describes the patches you must apply to Oracle SOA Suite 11.1.1.6

Table 2–18 Oracle SOA Suite 11.1.1.6

Product	My Oracle Support Patch Number	Description
Oracle SOA Suite 11.1.1.6	13704163	PATCH FOR 13704163 - soa ps5 11.1.1.6.1 (fusion applications b5.1)
Oracle SOA Suite 11.1.1.6	13826266	JCA BINDING EXCEPTION WHILE INVOKING ADAPTER SERVICE FROM SOA 11G PS5 TEMPLATE
Oracle SOA Suite 11.1.1.6	14104016	COMPOSITE INVOCATION FAILING WITH ERROR UNABLE TO FIND SERVICE
Oracle SOA Suite 11.1.1.6	13866584	PS2,PS5:ORACLE.WEBSERVICES.STANDALONE.CLIENT.JAR:DUPLICATE ENTRIES:LICENSE.TXT
Oracle SOA Suite 11.1.1.6	14200229	MISSING OPERATION NAME FAILS IN INVOCATION WITH NO FAILURE
Oracle SOA Suite 11.1.1.6	14310998	BPEL EXCEPTION WHEN FP HAS BEEN UPGRADED TO PS5 (11.1.1.6)

Table 2–19 describes the patches you must apply to Foundation Pack 11.1.1.6 (PS5).

Table 2–19 Foundation Pack 11.1.1.6 (PS5)

Product	My Oracle Support Patch Number	Description
Foundation Pack 11.1.1.6 (PS5)	RUP(14253266)	RUP ON TOP OF AIAFP 11.1.1.6.0 (Patch)

Table 2–20 describes the patches you must apply to Oracle Transportation Management (OTM) 6.2

Table 2–20 Oracle Transportation Management (OTM) 6.2

Product	My Oracle Support Patch Number	Description
OTM 6.2	9492690	SU Patch [asgw]: SERVICE #CREATEDISPATCH FAILS WITH VALID PORT (Patch) This is a Weblogic patch to be applied on OTM 6.2 Environment running on Weblogic 10.3.3 release.

Table 2–20 describes the patches you must apply to Oracle E-Business Suite R12.1.3.

Table 2–21 Oracle E-Business Suite R12.1.3

Product	My Oracle Support Patch Number	Description
Oracle E-Business Suite R12.1.3	16004835:R12.AR.B	ACCOUNT RECEIVABLE FLOW IS GETTING FAILED WITH AIA FAULTS IN EM.
Oracle E-Business Suite R12.1.3	13954258:R12.AR.B	Autoinvoice child program errors out with no data found only when master program submited in parallel.

2.28 LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

The LSP Order Mgmt: OTM - EBS - Siebel CRM PIP requires:

- Siebel CRM FP 8.0.0.8 QF# 2801 or Siebel SIA CRM 8.0.0.12 with ACR 508
- Oracle E-Business Suite R12.1.2 or Oracle E-Business Suite R12.1.3
- Oracle Transportation Management 6.1.1 or Oracle Transportation Management 6.2

Table 2–22 describes the patches you must apply to Oracle SOA Suite 11.1.1.6

Table 2–22 Oracle SOA Suite 11.1.1.6

Product	My Oracle Support Patch Number	Description
Oracle SOA Suite 11.1.1.6	13704163	PATCH FOR 13704163 - soa ps5 11.1.1.6.1 (fusion applications b5.1)
Oracle SOA Suite 11.1.1.6	13826266	JCA BINDING EXCEPTION WHILE INVOKING ADAPTER SERVICE FROM SOA 11G PS5 TEMPLATE
Oracle SOA Suite 11.1.1.6	14104016	COMPOSITE INVOCATION FAILING WITH ERROR UNABLE TO FIND SERVICE

Table 2–22 (Cont.) Oracle SOA Suite 11.1.1.6

Product	My Oracle Support Patch Number	Description
Oracle SOA Suite 11.1.1.6	13866584	PS2,PS5:ORACLE.WEBSERVICES.STANDALONE.CLIENT.JAR:DUPLICATE ENTRIES:LICENSE.TXT
Oracle SOA Suite 11.1.1.6	14200229	MISSING OPERATION NAME FAILS IN INVOCATION WITH NO FAILURE
Oracle SOA Suite 11.1.1.6	14310998	BPEL EXCEPTION WHEN FP HAS BEEN UPGRADED TO PS5 (11.1.1.6)

Table 2–23 describes the patches you must apply to Foundation Pack 11.1.1.6 (PS5).

Table 2–23 Foundation Pack 11.1.1.6 (PS5)

Product	My Oracle Support Patch Number	Description
Foundation Pack 11.1.1.6 (PS5)	RUP(14253266)	RUP ON TOP OF AIAFP 11.1.1.6.0 (Patch)

Table 2–24 describes the patches you must apply to Oracle Transportation Management (OTM) 6.2.

Table 2–24 Oracle Transportation Management (OTM) 6.2

Product	My Oracle Support Patch Number	Description
OTM 6.2	9492690	SU Patch [asgw]: SERVICE #CREATEDISPATCH FAILS WITH VALID PORT (Patch) This is a Weblogic patch to be applied on OTM 6.2 Environment running on Weblogic 10.3.3 release.

2.29 LSP Driver Mgmt: OTM - EBS PIP

The LSP Driver Mgmt: OTM - EBS PIP requires

- Oracle E-Business Suite R12.1.2 or Oracle E-Business Suite R12.1.3
- Oracle Transportation Management 6.1.1 or Oracle Transportation Management 6.2

Table 2–25 describes the patches you must apply to Oracle Transportation Management 6.1.1.

Table 2–25 OTM 6.1.1 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

Table 2–26 describes the patches you must apply to Oracle SOA Suite 11.1.1.6.

Table 2–26 Oracle SOA Suite 11.1.1.6

Product	My Oracle Support Patch Number	Description
Oracle SOA Suite 11.1.1.6	13704163	PATCH FOR 13704163 - soa ps5 11.1.1.6.1 (fusion applications b5.1)
Oracle SOA Suite 11.1.1.6	13826266	JCA BINDING EXCEPTION WHILE INVOKING ADAPTER SERVICE FROM SOA 11G PS5 TEMPLATE
Oracle SOA Suite 11.1.1.6	14104016	COMPOSITE INVOCATION FAILING WITH ERROR UNABLE TO FIND SERVICE
Oracle SOA Suite 11.1.1.6	13866584	PS2,PS5:ORACLE.WEBSERVICES.STANDALONE.CLIENT.JAR:DUPLICATE ENTRIES:LICENSE.TXT
Oracle SOA Suite 11.1.1.6	14200229	MISSING OPERATION NAME FAILS IN INVOCATION WITH NO FAILURE
Oracle SOA Suite 11.1.1.6	14310998	BPEL EXCEPTION WHEN FP HAS BEEN UPGRADED TO PS5 (11.1.1.6)

Table 2–27 describes the patches you must apply to Foundation Pack 11.1.1.6 (PS5).

Table 2–27 Foundation Pack 11.1.1.6 (PS5)

Product	My Oracle Support Patch Number	Description
Foundation Pack 11.1.1.6 (PS5)	RUP(14253266)	RUP ON TOP OF AIAFP 11.1.1.6.0 (Patch)

Table 2–28 describes the patches you must apply to Oracle Transportation Management (OTM) 6.2.

Table 2–28 Oracle Transportation Management (OTM) 6.2

Product	My Oracle Support Patch Number	Description
OTM 6.2	9492690	SU Patch [asgw]: SERVICE #CREATEDISPATCH FAILS WITH VALID PORT (Patch) This is a Weblogic patch to be applied on OTM 6.2 Environment running on Weblogic 10.3.3 release.

Table 2–29 describes the patches you must apply to Oracle E-Business Suite R12.1.3.

Table 2–29 Oracle E-Business Suite R12.1.3

Product	My Oracle Support Patch Number	Description
Oracle E-Business Suite R12.1.3	8413622:R12.CN.B	COLLECTION OF OTM RECORDS IN OIC (OTM - OIC PIP 2.5)

2.30 Value Chain Planning Integration Base Pack

The VCP Integration Base Pack requires:

- Oracle Data Integrator 11.1.1.5.0
- 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 9.1.24 (for PeopleSoft users)

For more information, see the *Oracle Data Integrator Implementation Guide*.

2.31 Project Portfolio Mgmt: Primavera P6 - JDE E1

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 https://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 patches for JD Edwards EnterpriseOne Applications 9.0. These patches are required, and should be installed in the following order:

1. JL11051
2. JL12014
3. JL14984
4. JL12809
5. JL15556

6. JL13277

2.32 Serialization and Tracking: OPSM - EBS

The Serialization and Tracking: OPSM - EBS integration requires:

- OPSM 1.1
- Oracle E-Business Suite 12.1.2 or Oracle E-Business Suite 11.5.10.

  For more information on the seed data patches you must apply to each version of Oracle E-Business Suite, see Table 2–30 or Table 2–31.
- Oracle Data Integrator 11.1.1.3

  For information on the patches you must apply to other versions of ODI, see Table 2–32.

Table 2–30 Seed Data 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

Table 2–31 Seed Data Patches for Oracle E-Business Suite 11.5.10

My Oracle Support Patch Number	Description
11662684	OPSM integration objects
10390291	OPSM related OPM changes

Table 2–32 ODI 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 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. This patch helps ODI invoke secured web services using HTTP Basic Authentication.

3

Installing Pre-Built Integrations

This chapter describes how to install pre-built integrations 11.5 and the Application Integration Architecture (AIA) release version (RV) 3.1.1 Process Integration Packs (PIP) and Direct Integrations (DI) that are delivered in this release using the AIA Pre-Built Integrations Installer.

This chapter includes the following sections:

- Section 3.1, "Prerequisites"
- Section 3.2, "Using the Oracle AIA Pre-Built Integrations Installer"
- Section 3.3, "Pre-Built Integrations 11.5 and AIA RV 3.1.1 PIPs and DIs Delivered in this Release"
- Section 3.4, "How to Create Backups of your Customizations"
- Section 3.5, "Preinstallation Configuration"
- Section 3.6, "How to Install the Pre-Built Integrations and AIA RV 3.1.1 PIPs and DIs"

3.1 Prerequisites

- Install Oracle SOA Suite 11.1.1.7 (PS6).

  For information about how to install Oracle SOA Suite, see *Oracle Fusion Middleware Installation Guide for Oracle SOA Suite and Oracle Business Process Management Suite.*

- Install Oracle AIA Foundation Pack 11.1.1.7, RUP patch 17553612 or later before you install the pre-built integrations.

  For information about how to install the Oracle AIA Foundation Pack, see *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack*.

- Make a backup of any customizations. If you do not create a backup, your customizations are overwritten.

  For more information about backing up your customizations, see Section 3.4, "How to Create Backups of your Customizations"

- If the products you are installing require database schemas, ensure that you have created these schemas in your database.

  See the applicable pre-built integrations chapters in Part II, "Configuring and Deploying Pre-Built Integrations" and Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs" of this guide to check if your PIP or DI require database

schemas.

For more information about how to create database schemas, see *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack* "Preparing for Foundation Pack Installation."

3.2 Using the Oracle AIA Pre-Built Integrations Installer

When you use the AIA Pre-Built Integrations Installer the following occurs.

1. You see a welcome screen that lists prerequisites and information about how to begin the installation process.

   The following prerequisite system checks are performed:

   - Operating system certification
   - Recommended operating system packages
   - Kernel parameters
   - Recommended gilbc version
   - Physical memory

2. You are prompted to enter the installation location.
3. You see an installation summary, which includes directory details, disk space required and available, and a list of the applications that are installed.

   The list of applications include all the pre-built integrations and AIA RV 3.1.1 PIPs and DIs.

   For more information about the pre-built integrations and AIA RV 3.1.1, see Section 3.3, "Pre-Built Integrations 11.5 and AIA RV 3.1.1 PIPs and DIs Delivered in this Release"
4. You can choose to save the Response file, which stores the values that you have input and are displayed on the installation summary page.

For detailed screenshots of the AIA Pre-Built Integrations Installer, see Appendix A, "AIA Pre-Built Integrations Installer Screens".

3.3 Pre-Built Integrations 11.5 and AIA RV 3.1.1 PIPs and DIs Delivered in this Release

The AIA Pre-Built Integrations Installer 11.5 is used to install pre-built integrations 11.5 and the individual 3.1.1 PIPs and DIs.

Caution: The AIA Pre-Built Integrations Installer helps you install all of the pre-built integrations and AIA RV 3.1.1 PIPs and DIs that are delivered in this release. However it is important that you only configure and deploy the integrations that you are going to be using. Please see the individual integration chapters for instructions for configuring and deploying your integrations.

3.3.1 Pre-Built Integrations Delivered in this Release

The following Pre-Built Integrations are delivered in this release.

Communications Pre-Built Integrations

- Oracle Communications Order to Cash Integration Pack for Siebel CRM, Oracle Communications Order and Service Management, and Oracle Communications Billing and Revenue Management 11.2
  - Oracle Communications Order to Cash for Siebel CRM, OSM, and BRM Pre-Built Integration option
  - Oracle Communications Order to Cash for Siebel CRM and BRM Pre-Built Integration option
  - Oracle Communications Order to Cash for Siebel CRM and OSM Pre-Built Integration option

  Caution: When choosing the Pre-Built Integrations to configure and deploy, you must only select one Oracle Communications Order to Cash Pre-Built Integration options that are listed.

- Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management: Agent Assisted Billing Care 11.2 (Comms Agent Assisted Billing Care: Siebel CRM - BRM)
- Oracle Communications Billing and Revenue Management Integration Pack for Oracle Business Suite: Revenue Accounting 11.1 (Comms Revenue Accounting: BRM - EBS)

Customer Master Data Management Pre-Built Integrations

- Oracle Customer Master Data Management Integration Base Pack 11.1 (Customer MDM Base Pack)
- Oracle Customer Master Data Management Integration Option for Siebel CRM 11.1 (Customer MDM: Siebel CRM)
- Oracle Customer Master Data Management Integration Option for Oracle E-Business Suite 11.1 (Customer MDM: EBS)
- Oracle Customer Master Data Management Integration Option for Oracle Communications Billing and Revenue Management 11.1 (Customer MDM: Comms BRM)

Product Master Data Management Pre-Built Integrations

- Oracle Product Master Data Management Integration Base Pack 11.2 (Product MDM Base Pack)
- Oracle Product Master Data Management Integration Option for Siebel CRM 11.2 (Product MDM: Siebel CRM)
- Oracle Product Master Data Management Integration Option for Oracle E-Business Suite 11.2 (Product MDM: EBS)
- Oracle Product Master Data Management Integration Option for Oracle Communications Billing and Revenue Management 11.2 (Product MDM: Comms BRM)
- Oracle Product Master Data Management Integration Option for Oracle Communications Design Studio 11.2 (Product MDM: Design Studio)

Product Lifecycle Management Pre-Built Integrations

- Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release 11.3 (Design to Release: Agile-EBS)

- Agile Product Lifecycle Management Integration Pack for SAP: Design to Release 11.3 (Design to Release: Agile-SAP)

Utilities Pre-Built Integrations

- Oracle Process Integration Pack for Oracle Utilities Field Work 11.1
- Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy 11.1 (Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy)
- Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy 11.1 (Product Data Synchronization for Oracle Utilities CCB and Siebel Energy)

3.3.2 AIA RV 3.1.1 PIPs and DIs Delivered in this Release

The following AIA RV 3.1.1 PIPs and DIs are delivered in this release:

- Oracle Design to Release Integration Pack for Agile PLM for Process and Oracle Process Manufacturing (Design to Release: Agile PLM for Process - OPM)
- Siebel CRM Integration Pack for Oracle Order Management: Order to Cash 3.1.1 (Order to Cash: Siebel CRM - EBS)
- Siebel CRM Integration to Oracle Incentive Compensation 3.1.1 (Siebel CRM to OIC)
- Oracle Lead to Order Integration Pack for Oracle CRM On Demand and Oracle E-Business Suite 3.1.1 (Lead to Order: CRM OD - EBS)
- Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandise Operations Management and PeopleSoft Enterprise Financials 3.1.1 (Financials Ops Control: Oracle Retail - PeopleSoft)
- Oracle Financial Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1.1 (LSP Financial Mgmt: OTM - EBS)
- Oracle Order Management Integration Pack for Oracle Transportation Management, Oracle E-Business Suite, and Siebel CRM 3.1.1 (LSP Order Mgmt: OTM - EBS - Siebel CRM)
- Oracle Driver Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite 3.1.1 (LSP Driver Mgmt: OTM - EBS)
- Oracle Value Chain Planning Integration Base Pack 3.1 (VCP Integration Base Pack)
- Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne 3.1.1 (Project Portfolio Mgmt: Primavera P6 - JDE E1)
- Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite 3.1.1 (Serialization and Tracking: OPSM - EBS)

3.4 How to Create Backups of your Customizations

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

- Back up custom Enterprise Business Objects (EBOs):

These are Oracle AIA schema extensions performed on EBOs. Though the AIA Pre-Built Integrations 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 extensible style sheet language transformations (XSLTs):

  These are the extensions performed on the AIA Transformation style sheet. Oracle AIA does not contain any XSLTs for its components and utilities. Because the process content is delivered only in integrations, you must manually back up the XSLTs if you have developed any for the custom integrations, and reapply them as a post install step.

- Back up custom Enterprise Business Services (EBS) Web Service Definition Language (WSDL):

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

- Back up custom routing rules in the (EBS):

  If you have defined any routing rules, on any of the EBS available as part of the integration, on top of the rules provided out of the box, you must manually take a back up of the EBS. You must merge the EBS manually as a post installation step.

- Back up the *AIAConfigurationProperties*.xml file located in the $AIA_INSTANCE/AIAMetaData/config folder. Merge custom inclusions in the *AIAConfigurationProperties*.xml file and change properties as required after installation.

3.5 Preinstallation Configuration

This section discusses the preinstallation configuration steps you must complete for each Pre-Built Integrations or AIA R.V. 3.1.1 integration included in this release.

If your Pre-Built Integrations or AIA R.V. 3.1.1 integration is not mentioned in this section, it does not require preinstallation configuration.

3.5.1 Design to Release: Agile - EBS Pre-Built Integration

If Oracle E-Business Suite with PIM release is being used for integration 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 Chapter 2, "Software Requirements":

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

1. Log in as SYSADMIN into Oracle Apps.
2. Go to the **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 **Redeploy/Deploy Web Service**.

   You can view **Deployed WSDL URL** under **Abstract WSDL UR**L.
8. Provide Grant to the Integration User for this web service.
9. Select the method **getItemListNumberDescription** and click **Create Grant** on the bottom of the page.
10. Specify the user and click **Apply**.

For additional information, see the following articles in My Oracle Support:

- Article ID 726414.1 - Oracle E-Business Suite Integrated SOA Gateway Troubleshooting Guide, Release 12.
- Article ID 556540.1 - Installing Oracle E-Business Suite Integrated SOA Gateway for Release 12.1.0 or later.
- Article ID 1311068.1 - Installing Oracle E-Business Suite Integrated SOA Gateway for Release 12.2.0 or later.

3.5.2 LSP Financial Mgmt: OTM - EBS PIP

Before you install the LSP Financial Mgmt: OTM - EBS PIP, ensure that "USERS" tablespace exists in the AIA database. You must 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.

The following is a sample command to create the tablespace:

```
create tablespace users data file '[your file name]' size [file size]
```

For more details on creating tablespace see the Oracle DBA guide.

3.5.3 LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Before you install the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP, ensure that "USERS" tablespace exists in the AIA database. You must 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.

The following is a sample command to create the tablespace:

```
create tablespace users data file '[your file name]' size [file size]
```

For more details on creating tablespace see the Oracle DBA guide.

3.5.4 LSP Driver Mgmt: OTM - EBS PIP

Before you install the LSP Driver Mgmt: OTM - EBS PIP, ensure that "USERS" tablespace exists in the AIA database. You must 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.

The following is a sample command to create the tablespace:

```
create tablespace users data file '[your file name]' size [file size]
```

For more details on creating tablespace see the Oracle DBA guide.

3.5.5 Value Chain Planning Integration Base Pack

Configure the following before installing Value Chain Planning (VCP) Integration Base Pack:

Table 3–1 Preinstallation Configurations

Item	Details
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.

3.6 How to Install the Pre-Built Integrations and AIA RV 3.1.1 PIPs and DIs

To install the pre-built integrations and AIA RV 3.1.1 PIPs and DIs:

1. Navigate to Oracle Software Delivery Cloud. [https://edelivery.oracle.com/]
2. Select the Product Pack: Oracle Application Integration Architecture.
3. Select your platform.
4. Click **Go**.
5. Click the *Oracle Application Integration Architecture Pre-built Integrations Release 11.5 Media Pack* link for your platform.
6. Download the **Oracle Application Integration Architecture Pre-built Integrations 11.5 Release** file.

> **Note:** For more information on the downloads listed on this page, click **Readme**.

7. Unzip the downloaded file.
8. Navigate to **aiapip/Disk1**.
9. Follow the launch instructions for your platform listed in the following table.

Table 3–2 Launching the AIA Pre-Built Integrations Installer

Platform	To launch the AIA Pre-Built Integrations Installer:
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit) HP-UX 11i (64 bit)	At the command line prompt, enter: `./runInstaller -invPtrLoc <AIA_HOME>/oraInst.loc -jreLoc <location of the jre specific to your operating system. This directory should have /bin/java>`
Microsoft Windows (32-bit)	Double-click setup.exe

AIA Pre-Built Integrations Installer launches **Welcome** screen.

10. Click **Next**.
11. Wait for the prerequisite checks to complete and then click **Next**.
12. Select AIA Home where Foundation Pack is installed.
13. Click **Next**.
14. Review the installation summary. To save the Response file, click **Save.**

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

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

    ```
    ./runInstaller -invPtrLoc /slot/ems4965/oracle/AIAHOME/oraInst.loc -jreLoc
    /slot/ems4965/oracle/Middleware/jdk160_24/jre -silent -response
    /slot/ems4965/oracle/11.1_Installer_response.xml
    ```

15. If the information displayed on the summary page is correct, click **Install**.

    You can make changes before installing by selecting the topic you want from the pane on the left.

    A warning screen displays a message stating that the installation overwrites your customizations and asks you to create a backup before proceeding. For more information, see Section 3.4, "How to Create Backups of your Customizations".

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

16. Click **Next**.
17. To exit the AIA Pre-Built Integrations Installer, click **Finish**. The installation is complete.
18. Verify whether *PIPManifest.*xml file exists under each PIP or DI folder under <AIA_HOME>/pips/<PIP Folder>/config. For example, *<AIA_HOME>/pips/Communications/O2A/config.*

Part II

Configuring and Deploying Pre-Built Integrations

This part describes how to configure and deploy the pre-built integrations that are delivered in this release on Foundation Pack.

This part contains the following chapters:

- Chapter 4, "Configuring and Deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration"
- Chapter 5, "Configuring and Deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration"
- Chapter 6, "Configuring and Deploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration"
- Chapter 7, "Configuring and Deploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration"
- Chapter 8, "Configuring and Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration"
- Chapter 9, "Configuring and Deploying Customer MDM Base Pack"
- Chapter 10, "Configuring and Deploying Customer MDM: Siebel CRM"
- Chapter 11, "Configuring and Deploying Customer MDM: E-Business Suite"
- Chapter 12, "Configuring and Deploying Customer MDM: Comms BRM"
- Chapter 13, "Deploying Customer MDM: Routing Rules"
- Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application"
- Chapter 15, "Configuring and Deploying Product MDM Base Pack"
- Chapter 16, "Configuring and Deploying Product MDM: Siebel CRM"
- Chapter 17, "Configuring and Deploying Product MDM: E-Business Suite"
- Chapter 18, "Configuring and Deploying Product MDM: Comms BRM"
- Chapter 19, "Deploying Product MDM: Routing Rules"
- Chapter 20, "Configuring and Deploying Product MDM: Design Studio"
- Chapter 21, "Configuring and Deploying Design to Release: Agile - EBS"
- Chapter 22, "Configuring and Deploying Design to Release: Agile - SAP"

- Chapter 23, "Configuring and Deploying the Oracle Process Integration Pack for Oracle Utilities Field Work"
- Chapter 24, "Configuring and Deploying Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy"
- Chapter 25, "Configuring and Deploying Product Data Synchronization for Oracle Utilities CCB and Siebel Energy"

4

Configuring and Deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration

This chapter discusses how to configure and deploy the Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management Agent Assited Billing Care (Comms Agent Assisted Billing Care: SBL CRM -BRM).

This chapter includes the following sections:

- Section 4.1, "Creating Oracle Data Integrator Repositories"
- Section 4.2, "Deployment Configuration Wizard"
- Section 4.4, "Configuring and Deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration"
- Section 4.5, "Performing Postdeployment Configurations"
- Section 4.6, "Verifying Deployment"
- Section 4.7, "Undeploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration"

4.1 Creating Oracle Data Integrator Repositories

Prerequisite/Assumption: The Master Repository and the Work Repository are created in Oracle Data Integrator (ODI).

In the ODI setup, three types of installations are available: Developer, Standalone and Java EE installations. For Java EE installation, you must also select Standalone installation option.

The ODI must be installed on a machine where Oracle AIA is installed. Repositories can be present on different machines.

You need not create a master repository. You can use an existing master repository if it exists on an Oracle database and the ID is between 126 and 999. If you are creating a new master repository, ensure that the repository ID is between 126 and 999.

You can use an existing work repository if it exists on an Oracle database and its ID is between 126 and 999. If its ID is not in that range, AIA advises you to create a repository with an ID between 126 and 999.

Table 4–1 details a list of ids you must avoid when creating master and work repositories.

Table 4–1 Prohibited IDs

Master Repository IDs	Work Repository IDs
219	129
999	239
-	543

When you run the DCW, it inserts or updates the integration 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 Data Integrator Installation Guide*, "Creating Repositories."

4.2 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration. Enter the details of the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

4.2.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components are deployed to the integration server. This screen contains the following fields:

Table 4–2 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

4.2.2 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 4–3 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	This is a computer name of the Siebel host. For example: `example1.corp.siebel.com`. To find the value, contact your administrator. Siebel Host name 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 _____
InternetProtocol	This value is the Siebel host internet protocol. For example, http://. To find the value, contact your administrator. InternetProtocol is _____ **Note:** Our internal environments are always on http://. The default value is https// and must be changed for Siebel web services and Session Pool Manager services to work.
Siebel Enterprise Server Name	This value is the Siebel enterprise server name. For example, siebel. To find the value, contact your administrator. Siebel Enterprise Server Name is _____ **Note:** This value must be in lowercase (siebel) for the Update Account flow to work.
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 _____
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 Version	Version of application, for example Siebel 8.1.1 SIA. To find the value, contact your administrator. Kindly ensure that the value is only 10 character long. Siebel Version is _____
Siebel Language	This is the language used by the Siebel application. For example, *enu*. To find the value, contact your administrator. Siebel Language is _____

4.2.3 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 4–4 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer 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 _____

Table 4–4 (Cont.) Siebel CRM Database Details Screen Fields

Field	Description
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 _____
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 _____

4.2.4 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 4–5 Oracle Communications BRM Details Screen

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Primary CM Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ database administrator System Administrator Primary CM Port Number is _____
Database Host	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator. Database Host is _____
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. Oracle AQ Database SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example, PIN7820. To find this value, contact your Oracle AQ administrator. Oracle AQ Username is _____ **Note:** This value must be in uppercase (PIN7820) for the OOTB PLM flow to work.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ administrator. Oracle AQ Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

4.2.5 Oracle Data Integrator Access Information Details Screens

Use these screens to enter details to access Oracle Data Integrator. These screens contain the following fields:

Table 4–6 Oracle Data Integrator Access Information Details Screens Fields

Field	Description
Path to Oracle Data Integrator	Provide the path to the ODI_HOME up to the oracledi/agent folder (included). To find this value, contact your administrator. Example: `/slot/ems8141/oracle/ODI11113/oracledi/agent` for Linux and `C\odi\oracledi\agent` for Windows. Path to Oracle Data Integrator is _____
Path for exported DVMs	Enter the path of the directory to export Domain Value Mappings (DVM). DVM folder gets created along with Foundation Pack installation. If you have installed Foundation Pack use `$AIA_HOME/AIAMetaData/dvm`. If you are installing the integration along with Foundation Pack for the first time, create a temporary folder for the DVMs. DVM are exported to this location. If you want to change the path to reflect the above location, open `AIAInstallProperties.xml` file from `$AIA_INSTANCE/config` post installation, search for `odi.dvm.path` and replace the temporary folder path with the above location. Path for exported DVMs is _____
ODI Username	To find this value, contact your administrator. Example: `SUPERVISOR`. ODI Username is _____
ODI User Password	To find this value, contact your administrator. Example: `SUNOPSIS` ODI User Password is _____

4.2.6 Oracle Data Integrator Master Repository Details Screen

You must set up an ODI Master Repository before installing the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration. This master repository must be created in an Oracle database.

Caution: If you are using either a new master repository or an existing master repository, you must ensure that the identifier for that repository is between 126 and 999.

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 Work repository is configured, field values in the screen are populated automatically.

The screen contains the following fields:

Table 4–7 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host	To find this value, contact your database administrator. Example: `server1.oracle.com` Database Host is_____
Database Port	To find this value, contact your database administrator. Example: `1521` Database Port is_____
Database SID	To find this value, contact your database administrator. Example: `oracle` Database SID 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_____

4.2.7 Oracle Data Integrator Work Repository Details for Agent Assisted Billing Care Screen

The install process imports the collections flow ODI artifacts 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.

Caution: If you are creating either an existing work repository or a new work repository, you must ensure that the repository is created with an ID between 126 and 999.

Use this screen to enter details related to the ODI Work Repository. If the Work repository is configured, field values in the screen are populated automatically.

The screen contains the following fields:

Table 4–8 Oracle Data Integrator Work Repository Details for Agent Assisted Billing Care Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI Work Repository for integration Artifacts. Example: `WORKREP` ODI Work Repository Name is _____
ODI Work Repository ID	Enter the ID number that you used for the ODI Work Repository. ODI Work Repository ID is _____
ODI Agent Application Name	Provides application name for the standalone or Java EE agent. For example, oracledіagent (The application name for a standalone agent is always oracledіagent and cannot be changed).
ODI Agent Port	Port defined for an agent during ODI installation. For example, 0910.

4.2.8 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

Table 4–9 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Caution: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

4.3 Performing Predeployment Configurations

This section discusses predeployment configurations for the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration.

4.3.1 Deploying BRM JCA Adapter

1. Based on your process integration version, obtain the BRM JCA adapter from the BRM administrator.
2. Deploy the JCA adapter by following the steps listed in section "Deploy resource adapters" of the Oracle Fusion Middleware Oracle WebLogic Server Administration Console Online Help 11g Release 1 (10.3.5).
3. After deploying the JCA adapter, perform the following steps:
   - Click Outbound Connection Pools subtab and expand the link “oracle.tip.adapter.api.OracleConnectionFactory” in the table.
   - Click Outbound Connection Pool instance and configure the properties that suits your process integration environment.

4.4 Configuring and Deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

4.4.1 Configuring the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration. Keep the completed worksheets of the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration screens ready before you launch the DCW.

To configure the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration:

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

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. Restart 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 DCW.
6. Click **Next.**
7. Expand **Communications Pre-built Integrations** and select **Comms Agent Assisted Billing Care: SBL CRM - BRM**.
8. Click **Next**.

4.4.1.1 Specify Integration Server Details

To specify integration server details:

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

4.4.1.2 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.**

4.4.1.3 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.**

4.4.1.4 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

4.4.1.5 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 the path to Oracle Data Integrator.
3. Click **Next.**
4. Specify the path for exported DVMs.
5. Click **Next.**
6. Enter **ODI User name** and **ODI User Password**.
7. Click **Next.**

4.4.1.6 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.**

4.4.1.7 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 Details for Agent Assisted Billing Care** screen.
2. Click **Next.**

4.4.1.8 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 4.4.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in the **Configuration Progress** screen.

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

4.4.2 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.

4.4.3 Deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 4–10 Deployment Commands for the Comms Agent Assisted Billing Care Pre-Built Integration

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/AABC/DeploymentPlans/deployAABC.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\AABC\DeploymentPlans\deployAABC.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/AABCDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

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

instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

4.5 Performing Postdeployment Configurations

This section discusses the postdeployment configurations for Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration.

4.5.1 Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets

To suppress auto-retry and prevent multiple error notifications and trouble tickets:

1. Set the `GlobalTxMaxRetry` property for outbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Click **More SOA Infra Advanced Configuration Properties**.
   e. Search for the `GlobalTxMaxRetry` property and set the value as *0* (zero).
2. Set the `GlobalInboundJcaRetryCount` property for inbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **Administration, System Mbean Browser**.
   d. Search for **oracle.as.soainfra.config**, expand **<Server>**, expand **AdapterConfig**.
   e. Select **Adapter**.
   f. Search for the `GlobalInboundJcaRetryCount` property and set the value as *0* (zero).
3. Change **Audit Level** from *development* to *production* for soa infrastructure:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration**, **Common Properties**.
   d. Choose *Production* from the **Audit Level** list.
   e. Click **Apply**
4. **Stop** and **Start** the SOA and Admin Server so that your changes can take effect.

4.6 Verifying Deployment

To verify the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Comms Agent Assisted Billing Care: Siebel - BRM Pre-Built Integration services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/)
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - AccountBalanceSiebelCommsReqABCS
   - AdjustmentSiebelCommsReqABCS
   - CommunicationsCustomerPartyEBSV2
   - CommunicationsCustomerPartyResponseEBSV2
   - Core2CommsCustomerPartyBridge
   - CreateAccountBalanceAdjustmentBRMCommsProvABCSImpl
   - CreateAccountBalanceAdjustmentListResponseBRMCommsJMSConsumer
   - CreateAccountBalanceAdjustmentListResponseBRMCommsJMSProducer
   - CreateAccountBalanceAdjustmentSiebelCommsJMSConsumer
   - CreateAccountBalanceAdjustmentSiebelCommsReqABCSImpl
   - CreateInvoicePaymentSiebelCommsReqABCSImpl
   - CreatePaymentSiebelCommsReqABCSImpl
   - CreateReceivedPaymentBRMCommsProvABCSImpl
   - CustomerPartyEBSV2
   - InvoiceSiebelCommsReqABCS
   - PaymentSiebelCommsReqABCS
   - QueryAccountBalanceAdjustmentBRMCommsProvABCSImpl
   - QueryAccountBalanceAdjustmentSiebelCommsReqABCSImpl
   - QueryBalanceDetailsSiebelCommsReqABCSImpl
   - QueryBalanceGroupListSiebelCommsReqABCSImpl

- QueryBalanceGroupServicesSiebelCommsReqABCSImpl
- QueryBalanceSummarySiebelCommsReqABCSImpl
- QueryCustomerPartyListBRMCommsProvABCSImpl
- QueryInstalledProductListBRMCommsProvABCSImpl
- QueryInvoiceBalanceDetailsSiebelCommsReqABCSImpl
- QueryInvoiceEventDetailsSiebelCommsReqABCSImpl
- QueryInvoiceListBRMCommsProvABCSImpl
- QueryInvoiceListSiebelCommsReqABCSImpl
- QueryInvoicePaymentSiebelCommsReqABCSImpl
- QueryInvoiceSiebelCommsReqABCSImpl
- QueryPaymentSiebelCommsReqABCSImpl
- QueryReceivedPaymentListBRMCommsProvABCSImpl
- QueryServiceUsageBRMCommsProvABCSImpl
- QueryUnbilledBalanceDetailsSiebelCommsReqABCSImpl
- QueryUnbilledEventDetailsSiebelCommsReqABCSImpl
- QueryUnbilledUsageSiebelCommsReqABCSImpl
- SearchInvoiceEventDetailsSiebelCommsReqABCSImpl
- SearchPaymentSiebelCommsReqABCSImpl
- SearchUnbilledEventDetailsSiebelCommsReqABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncCustomerPartyListBRM_01CommsJMSConsumer
- SyncCustomerPartyListBRMCommsJMSProducer
- SyncCustomerPartyListBRMCommsProvABCSImpl
- SyncCustomerSiebelEventAggregator
- TransformAppContextSiebelService
- UnbilledUsageSiebelCommsReqABCS
- UpdateAccountBalanceAdjustmentRespSiebelCommsProvABCSImpl
- UpdateCreditAlertBRMCommsProvABCSImpl
- UpdateCreditAlertSiebelCommsReqABCSImpl

3. Verify **Collections** installation.
   a. Verify that CURRENCY_CODE.dvm, COLLECTION_STATUS.dvm, COLLECTION_ACTIONNAME.dvm, COLLECTION_PRIORITY.dvm and COLLECTION_SUBSTATUS.dvm are present in the DVM path. This is the

same path that is mentioned during installation (<*AIA_Instance*>/*config/AIAInstallProperties*.xml file).

b. Open <AIA_Instance>/logs/AABCDP_Deployments_YYYY-MM-DD_HH-MI-SS.log. The log contains several statements starting with "[exec] OracleDI: Starting Command: OdiImportObject -FILE_NAME=". None of these statements should be followed by error messages except the error messages mentioned below.

4.6.1 Error Messages During Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration Deployment

When deploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration, you can encounter the following errors:

- Failed to execute: Create user *xxxxx* identified by *yyyyy*
- Unique Constraint Violation

4.6.1.1 Failed to execute: Create user xxxxx identified by yyyyy

AIA Pre-Built Integrations Installer displays this error message in the log file if the install script attempts to create a database user name for an existing database user name. You can ignore this message and continue with the install process.

The AIA Pre-Built Integrations Installer displays the following message when it finds an identical database user name:

Example 4–1 Identical Database User Name Message

```
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 user name provided for ODI Work Repository and *yyyyy* is the password.

4.6.1.2 Unique Constraint Violation

AIA Pre-Built Integrations Installer displays this error message in the log file if the ODI data source **xxxxx** exists in the ODI master repository. The ODI data source is defined in Topology in the Physical Architecture tab. This error occurs when the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration is reinstalled.

The AIA Pre-Built Integrations Installer displays the following message when it finds an identical ODI data source:

Example 4–2 Identical ODI Data Source Message

```
[echo] - Importing CONN_xxxxx.xml
[exec] OracleDI: Starting Command: OdiImportObject -FILE_NAME=<AIA_
```

```
HOME>/PIPS/Industry/Communications/DIS/Collections/src/master/CONN_xxxxx.xml
-IMPORT_MODE=SYNONYM_INSERT_UPDATE ...
[exec] java.sql.SQLException: ORA-00001: unique constraint (SNPM.PK_MTXT) violated
```

This error does not stop the install process. The process imports the remaining ODI integration 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 integration implementation, see *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management: Agent Assisted Billing Care Implementation Guide*.

Also see *Oracle Application Integration Architecture Oracle Communication Order to Cash Integration Pack Implementation Guide for Siebel CRM, Oracle Order and Service Management, and Oracle Billing and Revenue Management* for information related to customer management.

4.6.2 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
2. Expand **WebLogic Domain**.
3. Select **soa_domain**.
4. Right-click **soa_domain**.
5. Select **Web Services**, **Policies**.
6. Verify **Service Policy** attachment.
   a. Find **no_authentication_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.
7. Verify **Client Policy** attachment
   a. Navigate back to **Web Services Policies** screen.
   b. In **Applies To** LOV option, select **Service Clients** and hit enter. Find **no_authentication_client_policy**.
   c. Click the number in **Attachment Count** column.

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

Table 4–11 No Authentication Service Policy Attachments for Comms Agent Assisted Billing Care: SBL CRM - BRM

Composite	Service Policy
AccountBalanceSiebelCommsReqABCS	oracle/no_authentication_service_policy
UpdateCreditAlertSiebelCommsReqABCSImpl	oracle/no_authentication_service_policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy
UnbilledUsageSiebelCommsReqABCS	oracle/no_authentication_service_policy
PaymentSiebelCommsReqABCS	oracle/no_authentication_service_policy
AdjustmentSiebelCommsReqABCS	oracle/no_authentication_service_policy
InvoiceSiebelCommsReqABCS	oracle/no_authentication_service_policy

Table 4–12 No Authentication Client Policy for Comms Agent Assisted Billing Care: SBL CRM - BRM

Composite	Client Policy
SyncAccountSiebelReqABCSImpl	oracle/no_authentication_client_policy
UpdateAccountBalanceAdjustmentRespSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy

4.7 Undeploying the Comms Agent Assisted Billing Care: SBL CRM - BRM Pre-Built Integration

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 4–13 Undeployment Command for the Comms Agent Assisted Billing Care Pre-Built Integration

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/AABC/DeploymentPlans/undeployAABC.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\AABC\DeploymentPlans\undeployAABC.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA"

5

Configuring and Deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration

This chapter discusses how to configure and deploy the Oracle Communications Billing and Revenue Management Integration Pack for Oracle E-Business Suite: Revenue Accounting (Comms Revenue Accounting: BRM - EBS Pre-Built Integration).

This chapter includes the following sections:

- Section 5.1, "Creating Oracle Data Integrator Repositories"
- Section 5.2, "Deployment Configuration Wizard"
- Section 5.3, "Configuring and Deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration"
- Section 5.4, "Verifying Deployment"
- Section 5.5, "Undeploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration"

5.1 Creating Oracle Data Integrator Repositories

Prerequisite/Assumption: The Master Repository and the Work Repository are created in Oracle Data Integrator (ODI).

In the Oracle Data Integrator (ODI) setup, three types of installations are available: Developer, Standalone and Java EE installations. For Java EE installation, you must also select Standalone installation option.

The ODI must be installed on a machine where Oracle AIA is installed. Repositories can be present on different machines.

You need not create a master repository. You can use an existing master repository if it exists on an Oracle database and the ID is between 126 and 999. If you are creating a new master repository, ensure that the repository ID is between 126 and 999.

You can use an existing work repository if it exists on an Oracle database and its ID is between 126 and 999. If its ID is not in that range, AIA advises you to create a repository with an ID between 126 and 999.

Table 5–1 details a list of ids you must avoid when creating master and work repositories.

Table 5–1 Prohibited IDs

Master Repository IDs	Work Repository IDs
219	129
999	239
-	543

When you run the DCW, it inserts or updates the integration 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 Data Integrator Installation Guide*, "Creating Repositories."

5.2 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Comms Revenue Accounting: BRM - EBS Pre-Built Integration. Enter the details of the Comms Revenue Accounting: BRM - EBS Pre-Built Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

5.2.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components are deployed to the integration server. This screen contains the following fields:

Table 5–2 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

5.2.2 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 5–3 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	This value is the fully qualified computer 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	Examples: 11.5.10 or 12.1.1. E-Business Suite version is _____

5.2.3 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 5–4 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the computer 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.

5.2.4 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 5–5 Oracle Communications BRM Screen Fields

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Primary CM Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ system administrator Primary CM Port Number is _____
Database Host	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator Database Host is _____
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. Oracle AQ Database SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example: PIN7820. To find this value, contact your Oracle AQ administrator. Oracle AQ Username is _____ Note: This value must be in uppercase (PIN7820) for the OOTB PLM flow to work.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ administrator. Oracle AQ Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

5.2.5 Oracle Data Integrator Access Information Details Screens

Prerequisite/Assumption: Master Repository and the Work Repository are created in ODI,

Use these screens to enter details to access Oracle Data Integrator.

These screens contain the following fields:

Table 5–6 Oracle Data Integrator Access Information Details Screens Fields

Field	Description
Path to Oracle Data Integrator	Provide the path to the ODI_HOME up to the oracledi/agent folder (included). To find this value, contact your administrator. Example: `/slot/ems8141/oracle/ODI11113/oracledi/agent for Linux and C\odi\oracledi\agent for Windows.` Path to Oracle Data Integrator is _____
Path for exported DVMs	Enter the path of the directory to export Domain Value Mappings (DVM). DVM folder gets created along with Foundation Pack installation. If you have installed Foundation Pack use `$AIA_HOME/AIAMetaData/dvm`. If you are installing the integration along with Foundation Pack for the first time, create a temporary folder for the DVMs. DVMs are exported to this location. If you want to change the path to reflect the above location, open `AIAInstallProperties.xml` file from `$AIA_INSTANCE/config` post installation, search for odi.dvm.path and replace the temporary folder path with the above location. Path for exported DVMs is _____
ODI Username	To find this value, contact your administrator. Example: `SUPERVISOR`. ODI Username is _____
ODI User Password	To find this value, contact your administrator. Example: `SUNOPSIS` ODI User Password is _____

5.2.6 Oracle Data Integrator Master Repository Details Screen

You must set up an ODI Master Repository before installing the Comms Revenue Accounting: BRM - EBS Pre-Built Integration. This master repository must be created in an Oracle database.

> **Note:** If you are using either a new master repository or an existing master repository, you must ensure that the identifier for that repository is between 126 and 999.

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 configured, field values in the screen are populated automatically.

The screen contains the following fields:

Table 5–7 Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
Database Host	To find this value, contact your database administrator. Example: `server1.oracle.com` Database Host is_____
Database Port	To find this value, contact your database administrator. Example: `1521` Database Port is_____
Database SID	To find this value, contact your database administrator. Example: `oracle` Database SID 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_____

5.2.7 Oracle Data Integrator Work Repository Details for Revenue Accounting Screen

The install process imports the Comms Revenue Accounting: BRM - EBS Pre-Built Integration ODI artifacts 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.

> **Note:** If you are creating either an existing work repository or a new work repository, you must ensure that the repository is created with an ID is between 126 and 999.

Use this screen to enter details related to the ODI Work Repository. If the Master repository is configured, field values in the screen are populated automatically.

The screen contains the following fields:

Table 5–8 Oracle Data Integrator Work Repository Details for Revenue Accounting Screen Fields

Field	Description
ODI Work Repository Name	Enter the name you gave to the ODI Work Repository for integration Artifacts. Example: `WORKREP` ODI Work Repository Name is _____
ODI Work Repository ID	Enter the ID number that you used for the ODI Work Repository. ODI Work Repository ID is _____

5.3 Configuring and Deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

5.3.1 Configuring the Comms Revenue Accounting: BRM - EBS Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Comms Revenue Accounting: BRM - EBS Pre-Built Integration. Keep the completed worksheets of the Comms Revenue Accounting: BRM - EBS Pre-Built Integration screens ready before you launch the DCW.

To configure the Comms Revenue Accounting: BRM - EBS Pre-Built Integration:

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

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. Restart 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 DCW.
6. Click **Next.**
7. Expand **Communications Pre-built Integrations** and select **Comms Revenue Accounting: BRM - EBS**.
8. Click **Next**.

5.3.1.1 Specify Integration Server Details

To specify integration server details:

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

5.3.1.2 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.**

5.3.1.3 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.**

5.3.1.4 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

5.3.1.5 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 path to Oracle Data Integrator.
3. Click **Next.**
4. Specify the path for exported DVMs.
5. Click **Next.**
6. Enter **ODI User name** and **ODI User Password**.
7. Click **Next.**

5.3.1.6 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.**

5.3.1.7 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 Details for Revenue Accounting** screen.
2. Click **Next.**

5.3.1.8 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 5.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

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

5.3.2 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.

5.3.3 Deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 5–9 Deployment Commands for the Comms Revenue Accounting Pre-Built Integration

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/RA/DeploymentPlans/deployRA.sh`
Microsoft Windows (32-bit)	`%AIA_HOME\pips\Communications\RA\DeploymentPlans\deployRA.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/RADP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

Integrations, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack* "Generating Deployment Plans and Deploying Artifacts".

5.4 Verifying Deployment

To verify the Comms Revenue Accounting: BRM - EBS Pre-Built Integration deployment:

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 integration 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 integration is successfully installed.
2. Navigate to <AIAHome>/DISHome and verify whether the following folders have been created:
   - RevenueManagementHome
   - RevenueManagementHome/input
   - RevenueManagementHome/input/schema
   - RevenueManagementHome/success
   - RevenueManagementHome/failure
3. Verify whether **CurrencyCodeMapping.xml** is present in the **DVM** path. This is the same path that is mentioned during installation. You can find this path in AIAInstallProperties.xml file under the property 'odi.dvm.path.
4. Check <AIAHome>/DISHome/RevenueManagementHome/input/schema and find **brm_gl_data.xsd**.
5. Open *<AIA_Instance>/logs/RADP_Deployments_YYYY-MM-DD_HH-MI-SS.log*. The log contains several statements starting with "[exec] OracleDI: Starting Command: OdiImportObject -FILE_NAME=". None of these statements should be followed by error messages except the error messages mentioned in Section 5.4.1, "Error Messages During Comms Revenue Accounting: BRM - EBS Pre-Built Integration Deployment".

5.4.1 Error Messages During Comms Revenue Accounting: BRM - EBS Pre-Built Integration Deployment

When deploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration, you can encounter the following errors:

- Failed to execute: Create user *xxxxx* identified by *yyyyy*
- Unique Constraint Violation

5.4.1.1 Failed to execute: Create user xxxxx identified by yyyyy

AIA Pre-Built Integrations Installer displays this error message in the log file if the install script attempts to create a database user name for an existing database user name. You can ignore this message and continue with the install process.

The AIA Pre-Built Integrations Installer displays the following message when it finds an identical database user name:

Example 5–1 Identical Database User Name Message

```
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 user name provided for ODI Work Repository and *yyyyy* is the password.

5.4.1.2 Unique Constraint Violation

AIA Pre-Built Integrations Installer displays this error message in the log file if the ODI data source **xxxxx** exists in the ODI master repository. The ODI data source is defined in Topology in the Physical Architecture tab. This error occurs when the Comms Revenue Accounting: BRM - EBS Pre-Built Integration is reinstalled.

The AIA Pre-Built Integrations Installer displays the following message when it finds an identical ODI data source:

Example 5–2 Identical ODI Data Source Message

```
[echo] - Importing CONN_xxxxx.xml
[exec] OracleDI: Starting Command: OdiImportObject -FILE_NAME=<AIA_
HOME>/PIPS/Industry/Communications/DIS/Revenue/src/master/CONN_xxxxx.xml -IMPORT_
MODE=SYNONYM_INSERT_UPDATE ...
[exec] java.sql.SQLException: ORA-00001: unique constraint (SNPM.PK_MTXT) violated
```

This error does not stop the install process. The process imports the remaining ODI integration 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.

5.5 Undeploying the Comms Revenue Accounting: BRM - EBS Pre-Built Integration

This feature is not available for the Comms Revenue Accounting: BRM - EBS Pre-Built Integration.

6

Configuring and Deploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration

This chapter discusses how to configure and deploy the Oracle Communications Order to Cash Integration Pack for Siebel Customer Relationship Management, Oracle Communications Order and Service Management, and Oracle Communications Billing and Revenue Management (Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration).

This chapter includes the following sections:

- Section 6.1, "Deployment Configuration Wizard"
- Section 6.2, "Performing Predeployment Configurations"
- Section 6.3, "Configuring and Deploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration"
- Section 6.4, "Performing Postdeployment Configurations"
- Section 6.5, "Verifying Deployment"
- Section 6.6, "Undeploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration"

6.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration. Enter the details of the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

6.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components are deployed to the integration server. This screen contains the following fields:

Table 6–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

6.1.2 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 6–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	This is a computer name of the Siebel host. For example: `example1.corp.siebel.com`. To find the value, contact your administrator. Siebel Host name 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 _____
InternetProtocol	This value is the Siebel host internet protocol. For example, http://. To find the value, contact your administrator. InternetProtocol is _____ **Note:** Our internal environments are always on http://. The default value is https// and must be changed for Siebel web services and Session Pool Manager services to work.
Siebel Enterprise Server Name	This value is the Siebel enterprise server name. For example, siebel. To find the value, contact your administrator. Siebel Enterprise Server Name is _____ **Note:** This value must be in lowercase (siebel) for the Update Account flow to work.
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 6–2 (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 Version	Version of application, for example Siebel 8.1.1 SIA. To find the value, contact your administrator. Kindly ensure that the value is only 10 character long. Siebel Version is _____
Siebel Language	This is the language used by the Siebel application. For example, *enu*. To find the value, contact your administrator. Siebel Language is _____

6.1.3 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 6–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer 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 SID	This is the Siebel database system ID. For example: `qa7a`. To find the value, contact your database administrator. Siebel Database SID 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 _____

6.1.4 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 6–4 Oracle Communications BRM Details Screen Fields

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Primary CM Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ database administrator System Administrator Primary CM Port Number is _____
Database Host	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator Database Host is _____

Table 6–4 (Cont.) Oracle Communications BRM Details Screen Fields

Field	Description
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. Oracle AQ Database SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example, PIN7820. To find this value, contact your Oracle AQ database administrator. Oracle AQ Username is _____ **Note:** This value must be in uppercase (PIN7820) for the OOTB PLM flow to work.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ database administrator. Oracle AQ Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

6.1.5 Oracle OSM Server Details Screen

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

Table 6–5 Oracle OSM Server Details Screen Fields

Field	Description
OSM CFS Admin Username	This is the OSM admin user name used to connect to the OSM server. For example, `osm`. To find this value, contact your Oracle OSM administrator. OSM CFS Admin Username is _____
OSM CFS Admin Password	This is the OSM admin password used to connect to the OSM server. For example, `osmadmin`. To find this value, contact your Oracle OSM administrator. OSM CFS Admin Password is _____
OSM Provisioning Admin Username	This is the admin user used to connect to the OSM Provisioning server. For example, `osmlf`. To find this value, contact your OSM administrator. OSM Provisioning Admin Username is _____
OSM Provisioning Admin Password	This is the admin password used to connect to the OSM Provisioning server. For example, `osmadmin`. To find this value, contact your OSm administrator. OSM Provisioning Admin Password is _____
OSM CFS WL JMS Queue Access Host	This is the Weblogic host name for accessing inbound JMS queues for OSM CFS. For example, `hostname.example.com`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Host is _____
OSM CFS WL JMS Queue Access Port	This is the Weblogic port number for accessing inbound JMS queues for OSM CFS. For example, `7080`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Port is _____

Table 6–5 (Cont.) Oracle OSM Server Details Screen Fields

Field	Description
OSM CFS WL JMS Queue Access Username	This is the Weblogic user name for accessing inbound JMS queues for OSM CFS. For example, `osm`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Username is _____ _
OSM CFS WL JMS Queue Access Password	This is the Weblogic password for accessing inbound JMS queues for OSM CFS. For example, `osmadmin`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Password is _____ _
OSM Provisioning WL JMS Queue Access Host	This is the Weblogic host used for accessing inbound JMS queues for OSM Provisioning. For example, `hostname.example.com`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Host is _____ _____
OSM Provisioning WL JMS Queue Access Port	This is the Weblogic port number used for accessing inbound JMS queues for OSM Provisioning. For example, `7080`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Port is _____ _____
OSM Provisioning WL JMS Queue Access Username	This is the Weblogic user name for accessing inbound JMS queues for OSM Provisioning. For example, `osmlf`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Username is _____ _____
OSM Provisioning WL JMS Queue Access Password	This is the Weblogic password for accessing inbound JMS queues for OSM Provisioning. For example, `osmadmin`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Password is _____ _____

6.1.6 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

Table 6–6 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Note: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

6.2 Performing Predeployment Configurations

This section discusses predeployment configurations for the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration.

6.2.1 Deploying BRM JCA Adapter

1. Based on your process integration version, obtain the BRM JCA adapter from the BRM administrator.
2. Deploy the JCA adapter by following the steps listed in section "Deploy resource adapters" of the Oracle Fusion Middleware Oracle WebLogic Server Administration Console Online Help 11g Release 1 (10.3.5).
3. After deploying the JCA adapter, perform the following steps:
   - Click Outbound Connection Pools subtab and expand the link “oracle.tip.adapter.api.OracleConnectionFactory” in the table.
   - Click Outbound Connection Pool instance and configure the properties that suits your process integration environment.

6.2.2 Configuring the Timeout Values

This section describes how to modify the JTA Transaction Value and the SyncMaxWaitTime values.

To modify JTA Transaction Value:

1. Log in to the WebLogic Server console.
2. Navigate to **Services, JTA**.
3. Change the value of the property **Timeout Seconds** to *3600*.
4. Click **Save** and activate the changes.

To modify SyncMaxWaitTime values:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
2. Expand the SOA folder and right-click **soa-infra**.
3. Select **SOA Administration**, **BPEL Properties**.
4. Click the **More BPEL Configuration Properties** link.
5. Change the value of **syncMaxWaitTime** to *120*.
6. Click **Apply**.

Note: These TimeOut values must be adjusted appropriately based on the environment configurations for each customer.

6.3 Configuring and Deploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.

2. Deploy the integration to the Fusion Middleware server.

6.3.1 Configuring the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration. Keep the completed worksheets of the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration screens ready before you launch the DCW.

To configure the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration:

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

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. Restart 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 DCW.
6. Click **Next.**
7. Expand **Communications Pre-built Integrations** and select **Comms Order to Cash: SBL CRM, OSM, and BRM**.
8. Click **Next**.

6.3.1.1 Specify Integration Server Details

To specify Integration Server details:

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

6.3.1.2 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.**

6.3.1.3 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.**

6.3.1.4 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

6.3.1.5 Specify Oracle OSM Server Details

To specify Oracle OSM server details:

1. Enter Oracle OSM server information in the **Oracle OSM Server Details** screen.
2. Click **Next.**

6.3.1.6 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 6.3.2, "Configuring Using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

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

6.3.2 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.

6.3.3 Deploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 6–7 Deployment Commands for the Comms Order to Cash for Siebel CRM, OSM and BRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2C/DeploymentPlans/deployO2C.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2C\DeploymentPlans\deployO2C.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/O2CDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

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

instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

6.4 Performing Postdeployment Configurations

This section discusses post deployment configuration for Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration. This section includes:

- Section 6.4.1, "Adding Singleton property to ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer Service"
- Section 6.4.2, "Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets"
- Section 6.4.3, "Supporting Message Priority"
- Section 6.4.4, "Updating Internal ID for the BRM Instance BRM_01"
- Section 6.4.5, "Adding Security Policy to the QueryProductClassAndAttributesSCECommsReqABCSImpl Service"
- Section 6.4.6, "Setting up the AIA FMW Server"

6.4.1 Adding Singleton property to ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer Service

1. Log in to the Oracle Enterprise Manager console of the Oracle AIA cluster.
2. Navigate to the SOA composite: **ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer**
   - In the left-side navigation tree, expand **SOA** > **soa-infra (soa_server1)** in the navigator.
   - Expand the partition: **default**.
3. Select the SOA Composite : **ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer**
4. From the SOA Composite menu, under **Services/Reference Properties**, click **Consume_PFOBAL** service. Click **Properties** tab. Click **Add** to add a new property
5. Click **Search** and select **singleton** from the **Property Names** pop-up window. In the **Value** column, enter **true.**
6. Click **Apply**.

6.4.2 Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets

To suppress auto-retry and prevent multiple error notifications and trouble tickets:

1. Set the `GlobalTxMaxRetry` property for outbound adapters:
   a. Log in to the **Oracle Enterprise Manager Fusion Middleware Control**.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Click **More SOA Infra Advanced Configuration Properties**.
   e. Search for the `GlobalTxMaxRetry` property and set the value as *0* (zero).
2. Set the `GlobalInboundJcaRetryCount` property for inbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **Administration, System Mbean Browser**.
   d. Expand **oracle.as.soainfra.config**, **<Server>**, **AdapterConfig**.
   e. Select **Adapter**.
   f. Search for the `GlobalInboundJcaRetryCount` property and set the value as *0* (zero).
3. Change **Audit Level** from *Development* to *Production* for soa infrastructure:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Choose *Production* from the **Audit Level** list.
   e. Click **Apply**.
4. **Stop** and **Start** the SOA and Admin Server so that your changes can take effect.

6.4.3 Supporting Message Priority

As part of supporting message priority, follow the below steps to configure the queues (AIA_CRTBO_OUT_JMSQ, AIA_CRTCUST_OUT_JMS, AIA_CRTFO_OUT_JMSQ, AIA_FOPROV_OUT_JMSQ) so that the message is prioritized based on JMSPriority.

1. Creating Destination Sort Key based on JMSPriority
   a. Log in to **Oracle Weblogic Server Administration Control**.
   b. Navigate to **Services**, **Messaging**, **JMS Modules**.
   c. Click **AIAJMSModule.**
   d. Click **New** and select **Destination Sort Key** option.
   e. Click **Next.**
   f. Give a name AIA_SALESORDERJMSPRIORITY_KEY, click **OK**. The key is created.

g. Click **AIA_SALESORDERJMSPRIORITY_KEY** link and choose **JMSPriority** from the **Sort Key** list.

h. Select **Key Type** as **Int**.

i. Select **Direction** as **Descending**.

j. Click **Save**.

2. Attaching Destination Sort Key to JMS Queues

a. Click **AIAJMSModule.**

b. Click **AIA_CRTBO_OUT_JMSQ.**

c. In **Destination Keys** section, newly created **Key** is displayed. Select and choose the key.

d. Click **Save.**

3. Repeat steps 2a to 2d for the following queues:

- AIA_CRTCUST_OUT_JMSQ
- AIA_CRTFO_OUT_JMSQ
- AIA_FOPROV_OUT_JMSQ

6.4.4 Updating Internal ID for the BRM Instance BRM_01

To update the internal ID for the BRM instance **BRM_01** in the AIA Application Registry in the AIA application perform the following steps:

1. Find the BRM instance ID that is specified in BRM Payload Configuration file:

a. Go to the file system where your BRM portal is installed.

b. Navigate to folder *../portal/7.4/sys/eai_js*.

c. Find the payload configuration file **payloadconfig_crm_sync.xml**.

d. Open the file. The instance Id is specified as shown in Example 6–1.

Example 6–1 Instance ID Specified in the BRM Payload Configuration File

```
<ProductInfoChange Source="EVENT" Tag="ProductInfoChange"

StartEvent="/event/notification/price/products/modify">
          <Attribute Tag="InstanceId" Value="Portal"/>
          <Attribute Tag="xmlns" Value="http://www.portal.com/schemas/CRMSync"/>
          <Attribute Tag="xmlns:xsi"
Value="http://www.w3.org/2001/XMLSchema-instance"/>
          <Attribute Tag="xsi:schemaLocation"
Value="http://www.portal.com/schemas/CRMSync/ProductInfoChange.xsd"/>
          <Field PinFld="PIN_FLD_ACCOUNT_OBJ" Tag="AccountObj"/>
          <SubElement Name="ProductInfo"
OnEvent="/event/notification/price/products/modify" />
</ProductInfoChange>
```

If it is **Portal**, this value appears as **brmproductabo:InstanceId** in the **Product Event message** from BRM. See Example 6–2.

Example 6–2 BRM Instance ID Specified in the Message Payload

```
<SyncProductReqMsg>
<part xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
name="SyncProduct">
<brmproductabo:ProductInfoChange
xmlns:brmproductabo="http://www.portal.com/schemas/CRMSync"
brmproductabo:InstanceId="Portal">
```

2. Update the **Internal ID** column to the Instance ID from BRM to the value above. For example: **Portal**.
3. In **AIA Application**, go to **AIA Application Registry**, **Setup**, **System** and find the entry for System Code "BRM_01".
4. Change that value to the **InstanceId** from the BRM Payload Configuration file. For example: **Portal**.

6.4.5 Adding Security Policy to the QueryProductClassAndAttributesSCECommsReqABCSImpl Service

Add the following security policy to have the Product Class SCE flow working from the OSM Design Studio.

> **Note:** This step is only required if you are using OSM 7.0.2 version.

To add the security policy:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control (http://<host>:<port>/em).
2. Select the service `QueryProductClassAndAttributesSCECommsReqABCSImpl`.
3. Scroll down to the **Services and References** section and select the **QueryProductClassAndAttributesSCECommsReqABCSImpl** link.
4. Go to the **Policies** tab.
5. Go to the **Directly Attached Policies** section and click **Attach/Detach**.
6. Select **oracle/no_authentication_service_policy** and click **Attach**.
7. Click **OK**.
8. Verify that **oracle/no_authentication_service_policy** is attached.

6.4.6 Setting up the AIA FMW Server

> **Note:** This step is required if **cluster** is the deployment topology.

Perform the following steps to enable tunneling:

1. Configure `http proxy host`
   a. Modify `mod_wl_ohs.conf`

      For example, `$MW_HOME/Oracle_WT1/instances/instance1/config/OHS/ohs1/mod_wl_ohs.conf`

   b. Add the following location:

      ```
      <Location / bea_wls_internal >

      SetHandler weblogic-handler
      ```

```
WebLogicCluster
adc1140309.example.com:8001,adc2101063.example.com:8011

WLLogFile /tmp/web_log.log

</Location>
```

c. Restart using `./opmnctl stopall, ./opmnctl startall`

2. Configure WebLogic Server
   a. Log in to **WebLogic Server Administration Console**.
   b. Click **Servers** link and each manager server.
   c. Click **Protocols**, **HTTP**, **Enable Tunneling**.
   d. Save the configuration.
   e. Restart **Admin** and managed servers.
3. Configure OSM SAF Remote Context if OSM Fulfillment system is clustered
   a. Navigate to console `<host>:<port>/console`.
   b. Navigate to **Home, JMS Modules, AIAJMSModule, OSM (SAF Remote Context).**
   c. Select **Lock** and **Edit**: update the URL to include all the OSM clustered nodes.

      For example, t3://coqalv0045.example.com:7070,coqalv0046.example.com:8070.
   d. **Save** and **Release** the configuration.
4. Configure SOM SAF Remote Context if OSM Provisioning system is clustered
   a. Navigate to console `<host>:<port>/console`.
   b. Navigate to **Home, JMS Modules, AIAJMSModule, SOM (SAF Remote Context)**.
   c. Select **Lock** and **Edit**: update the URL to include all the OSM clustered nodes.

      For example, t3://coqalv0045.example.com:7070,coqalv0046.example.com:8070.
   d. **Save** and **Release** the configuration.

6.5 Verifying Deployment

To verify the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration Deployment:

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 integration is successfully installed.
2. Confirm that the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration components are successfully installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- CommunicationsClassificationEBSV1
- CommunicationsSpecificationValueSetEBSV1
- AIACOMOrderFalloutNotificationJMSConsumer
- AIAOrderFalloutJMSBridgeService
- Comms2CoreCustomerPartybridge
- CommsProcessBillingAccountListEBF
- CommsProcessFulfillmentOrderBillingAccountListEBF
- CommunicationsCustomerPartyEBSV2
- CommunicationsCustomerPartyEBSV2Resequencer
- CommunicationsCustomerPartyResponseEBSV2
- Core2CommsCustomerPartyBridge
- CreateFaultNotificationLFCommsJMSConsumer
- CreateOrderFalloutNotificationOSMCFSCommsJMSConsumer
- CreateOrderFalloutNotificationOSMCFSCommsJMSProducer
- CreateOrderFalloutNotificationOSMCFSCommsProvImpl
- CreateTroubleTicketAIACommsReqImpl
- CreateTroubleTicketOSMCFSCommsJMSConsumer
- CreateTroubleTicketRespOSMCFSCommsJMSProducer
- CreateTroubleTicketSiebelCommsProvABCSImpl
- CustomerPartyEBSV2
- ProcessFOBillingAccountListRespOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer
- ProcessFulfillmentOrderBillingBRMCommsAddSubProcess
- ProcessFulfillmentOrderBillingBRMCommsDeleteSubProcess
- ProcessFulfillmentOrderBillingBRMCommsMoveAddSubProcess
- ProcessFulfillmentOrderBillingBRMCommsProvABCSImpl
- ProcessFulfillmentOrderBillingBRMCommsSuspendResumeSubProcess
- ProcessFulfillmentOrderBillingBRMCommsUpdateSubProcess
- ProcessFulfillmentOrderBillingOSMCFSCommsJMSConsumer
- ProcessFulfillmentOrderBillingResponseOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderUpdateOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderUpdateOSMPROVCommsJMSConsumer
- ProcessInstalledProductSpecialRatingSetListBRMCommsProvABCSImpl
- ProcessInstalledProductSpecialRatingSetListSiebelCommsJMSConsumer

- ProcessInstalledProductSpecialRatingSetListSiebelCommsReqABCSImpl
- ProcessProvisioningOrderOSMCFSCommsJMSConsumer
- ProcessProvisioningOrderOSMPROVCommsJMSProducer
- ProcessSalesOrderFulfillmentOSMCFSCommsJMSProducer
- ProcessSalesOrderFulfillmentSiebelCommsJMSConsumer
- ProcessSalesOrderFulfillmentSiebelCommsReqABCSImpl
- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- QueryClassificationListSiebelCommsProvABCSImpl
- QueryCustomerPartyListSiebelProvABCSImplV2
- QueryProductClassAndAttributesSCECommsReqABCSImpl
- QuerySpecificationListSiebelCommsProvABCSImpl
- QuerySpecificationValueSetListSiebelCommsProvABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncCustomerPartyListBRM_01CommsJMSConsumer
- SyncCustomerPartyListBRMCommsJMSProducer
- SyncCustomerPartyListBRMCommsProvABCSImpl
- SyncCustomerSiebelEventAggregator
- SyncDiscountBRMCommsReqABCSImpl
- SyncDiscountInfoChangeBRMAQ
- SyncItemCompositionListSiebelCommsProvABCSImpl
- SyncProductBRMCommsReqABCSImpl
- SyncProductInfoChangeBRMAQ
- TransformAppContextSiebelService
- UpdateSalesOrderOSMCFSCommsJMSConsumer
- UpdateSalesOrderSiebelCommsProvABCSImpl
- UpdateTroubleTicketOSMCFSCommsJMSConsumer
- UpdateTroubleTicketSiebelCommsProvABCSImpl

6.5.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
2. Expand **WebLogic Domain**.
3. Select **soa_domain**.
4. Right-click **soa_domain**.
5. Select **Web Services**, **Policies**.
6. Verify **Service Policy** attachment.
   a. Find **no_authentication_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.
7. Verify **Client Policy** attachment
   a. Navigate back to **Web Services Policies** screen.
   b. Navigate to **Applies To LOV**, select **Service Clients** and hit enter. Find **no_authentication_client_policy**.
   c. Click the number in **Attachment Count** column.

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

Table 6–8 No Authentication Service Policy Attachments for Comms Order to Cash: SBL CRM, BRM, and OSM

Composite	Service Policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy

Table 6–9 No Authentication Client Policy Attachments for Comms Order to Cash: SBL CRM, BRM, and OSM

Composite	Client Policy
SyncAccountSiebelReqABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationValueSetListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
SyncItemCompositionListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
CreateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QueryCustomerPartyListSiebelProvABCSImplV2	oracle/no_authentication_client_policy
QueryClassificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy

For integration implementation, see *Oracle Application Integration Architecture Oracle Communication Order to Cash Integration Pack Implementation Guide for Siebel CRM, Oracle Order and Service Management, and Oracle Billing and Revenue Management*.

Also see *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management: Agent Assisted Billing Care Implementation Guide*

6.6 Undeploying the Comms Order to Cash: SBL CRM, OSM, and BRM Pre-Built Integration

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 6–10 Undeployment Command for the Comms Order to Cash: SBL CRM, OSM, and BRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2C/DeploymentPlans/undeployO2C.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2C\DeploymentPlans\undeployO2C.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA"

7

Configuring and Deploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

This chapter discusses how to configure and deploy the Oracle Communications Order to Cash Integration Pack for Siebel Customer Relationship Management and Oracle Communications Billing and Revenue Management (Comms Order to Cash: SBL CRM and BRM Pre-Built Integration).

This option assumes integration with a Central Order Management system, other than Oracle OSM. On deployment, this option deploys Test Orchestration Process (TOP) to take order fulfillment requests from Siebel and hand them off to Oracle BRM. However, this process is for simple sanity testing of the order flow between Siebel CRM and Oracle BRM. You must replace this process with your Order Management system following the steps detailed in Section 7.7, "Replacing Test Order Orchestration with your Order Management System".

This chapter includes the following sections:

- Section 7.1, "Deployment Configuration Wizard"
- Section 7.2, "Performing Predeployment Configurations"
- Section 7.3, "Configuring and Deploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration"
- Section 7.4, "Performing Postdeployment Configurations"
- Section 7.5, "Verifying Deployment"
- Section 7.6, "Undeploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration"
- Section 7.7, "Replacing Test Order Orchestration with your Order Management System"

7.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration. Enter the details of the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

7.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components are deployed to the integration server. This screen contains the following fields:

Table 7–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

7.1.2 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 7–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	This is a computer name of the Siebel host. For example: `example1.corp.siebel.com`. To find the value, contact your administrator. Siebel Host name 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 _____
InternetProtocol	This value is the Siebel host internet protocol. For example, http://. To find the value, contact your administrator. InternetProtocol is _____ **Note:** Our internal environments are always on http://. The default value is https// and must be changed for Siebel web services and Session Pool Manager services to work.
Siebel Enterprise Server Name	This value is the Siebel enterprise server name. For example, siebel. To find the value, contact your administrator. Siebel Enterprise Server Name is _____ **Note:** This value must be in lowercase (siebel) for the Update Account flow to work.
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 7–2 (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 Version	Version of application, for example Siebel 8.1.1 SIA. To find the value, contact your administrator. Kindly ensure that the value is only 10 character long. Siebel Version is _____
Siebel Language	This is the language used by the Siebel application. For example, *enu*. To find the value, contact your administrator. Siebel Language is _____

7.1.3 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 7–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer 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 SID	This is the Siebel database system ID. For example: `qa7a`. To find the value, contact your database administrator. Siebel Database SID 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 _____

7.1.4 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 7–4 Oracle Communications BRM Details Screen

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Primary CM Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ database administrator System Administrator Primary CM Port Number is _____
Database Host	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator Database Host is _____

Table 7–4 (Cont.) Oracle Communications BRM Details Screen

Field	Description
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. Oracle AQ Database SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example, PIN7820. To find this value, contact your Oracle AQ database administrator. Oracle AQ Username is _____ **Note:** This value must be in uppercase (PIN7820) for the OOTB PLM flow to work.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ database administrator. Oracle AQ Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

7.1.5 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

Table 7–5 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Caution: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

7.2 Performing Predeployment Configurations

This section discusses predeployment configurations for the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration.

7.2.1 Deploying BRM JCA Adapter

1. Based on your process integration version, obtain the BRM JCA adapter from the BRM administrator.
2. Deploy the JCA adapter by following the steps listed in section "Deploy resource adapters" of the Oracle Fusion Middleware Oracle WebLogic Server Administration Console Online Help 11g Release 1 (10.3.5).

3. After deploying the JCA adapter, perform the following steps:
   - Click Outbound Connection Pools subtab and expand the link "oracle.tip.adapter.api.OracleConnectionFactory" in the table.
   - Click Outbound Connection Pool instance and configure the properties that suits your process integration environment.

7.2.2 Configuring the Timeout Values

This section describes how to modify the JTA Transaction Value and the SyncMaxWaitTime values.

To modify JTA Transaction Value:

1. Log in to the WebLogic Server console.
2. Navigate to **Services**, **JTA**.
3. Change the value of the property **Timeout Seconds** to *3600*.
4. Click **Save** and activate the changes.

To modify SyncMaxWaitTime values:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
2. Expand the SOA folder and right-click **soa-infra**.
3. Select **SOA Administration, BPEL Properties**.
4. Click the **More BPEL Configuration Properties** link.
5. Change the value of **SyncMaxWaitTime** to *120*.
6. Click **Apply**.

Note: These TimeOut values must be adjusted appropriately based on the environment configurations for each customer.

7.3 Configuring and Deploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

7.3.1 Configuring the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration. Keep the completed worksheets of the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration screens ready before you launch the DCW.

To configure the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration:

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

1. Navigate to ../Middleware/user_projects/domains/<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. Restart 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 DCW.
6. Click **Next.**
7. Expand **Communications Pre-built Integrations** and select **Comms Order to Cash: Siebel CRM and BRM.**
8. Click **Next**.

7.3.1.1 Specify Integration Server Details

To specify integration server details:

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

7.3.1.2 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.**

7.3.1.3 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.**

7.3.1.4 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

7.3.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 7.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

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

7.3.2 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.

7.3.3 Deploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 7–6 Deployment Commands for the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2B/DeploymentPlans/deployO2B.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2B\DeploymentPlans\deployO2B.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/O2BDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

Integrations, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

7.4 Performing Postdeployment Configurations

This section discusses post deployment configuration for Comms Order to Cash: SBL CRM and BRM Pre-Built Integration. This section includes:

- Section 7.4.1, "Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets"
- Section 7.4.2, "Supporting Message Priority"

- Section 7.4.3, "Updating Internal ID for the BRM Instance BRM_01"
- Section 7.4.4, "Setting up the AIA FMW Server"

7.4.1 Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets

To suppress auto-retry and prevent multiple error notifications and trouble tickets:

1. Set the `GlobalTxMaxRetry` property for outbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Click **More SOA Infra Advanced Configuration Properties**.
   e. Search for the `GlobalTxMaxRetry` property and set the value as *0* (zero).
2. Set the `GlobalInboundJcaRetryCount` property for inbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **Administration, System Mbean Browser**.
   d. Search for **oracle.as.soainfra.config**, expand **<Server>**, expand **AdapterConfig**.
   e. Select **Adapter**.
   f. Search for the `GlobalInboundJcaRetryCount` property and set the value as *0* (zero).
3. Change **Audit Level** from *Development* to *Production* for soa infrastructure:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Choose *Production* from the **Audit Level** list.
   e. Click **Apply**.
4. **Stop** and **Start** the SOA and Admin Server so that your changes can take effect.

7.4.2 Supporting Message Priority

As part of supporting message priority, follow the below steps to configure the queues (AIA_CRTBO_OUT_JMSQ, AIA_CRTCUST_OUT_JMS) so that the message is prioritized based on JMSPriority.

1. Creating Destination Sort Key based on JMSPriority:
   a. Log in to **Oracle Weblogic Administration Console**
   b. Navigate to **Services**, **Messaging**, **JMS Modules.**
   c. Click **AIAJMSModule**.
   d. Click **New** and select **Destination Sort Key** option.

e. Give a name AIA_SALESORDERJMSPRIORITY_KEY, click **OK**. The key is created.

f. Click **AIA_SALESORDERJMSPRIORITY_KEY** link and choose **JMSPriority** from the **Sort Key** drop down list.

g. Select **Key Type** as **Int**.

h. Select **Direction as Descending.**

i. Click **Save.**

2. Attaching Destination Sort Key to JMS Queues:

a. Click **AIAJMSModule.**

b. Click **AIA_CRTBO_OUT_JMSQ.**

c. In **The Destination Keys** section, newly created **Key** is displayed. Select and choose the key.

d. Click **Save**.

3. Repeat steps 2a to 2d for queue AIA_CRTCUST_OUT_JMSQ.

7.4.3 Updating Internal ID for the BRM Instance BRM_01

To update the internal ID for the BRM instance **BRM_01** in the AIA Application Registry in the AIA application perform the following steps:

1. Find the BRM instance ID that is specified in BRM Payload Configuration file:

a. Go to the file system where your BRM portal is installed.

b. Navigate to folder *../portal/7.4/sys/eai_js*.

c. Find the payload configuration file **payloadconfig_crm_sync.xml**.

d. Open the file. The instance Id is specified as shown in Example 7–1.

Example 7–1 Instance ID Specified in the BRM Payload Configuration File

```
<ProductInfoChange Source="EVENT" Tag="ProductInfoChange"

StartEvent="/event/notification/price/products/modify">
          <Attribute Tag="InstanceId" Value="Portal"/>
          <Attribute Tag="xmlns" Value="http://www.portal.com/schemas/CRMSync"/>
          <Attribute Tag="xmlns:xsi"
Value="http://www.w3.org/2001/XMLSchema-instance"/>
          <Attribute Tag="xsi:schemaLocation"
Value="http://www.portal.com/schemas/CRMSync/ProductInfoChange.xsd"/>
          <Field PinFld="PIN_FLD_ACCOUNT_OBJ" Tag="AccountObj"/>
          <SubElement Name="ProductInfo"
OnEvent="/event/notification/price/products/modify" />
</ProductInfoChange>
```

If it is **Portal**, this value appears as **brmproductabo:InstanceId** in the **Product Event message** from BRM. See Example 7–2.

Example 7–2 BRM Instance ID Specified in the Message Payload

```
<SyncProductReqMsg>
<part xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
name="SyncProduct">
<brmproductabo:ProductInfoChange
```

```
xmlns:brmproductabo="http://www.portal.com/schemas/CRMSync"
brmproductabo:InstanceId="Portal">
```

2. Update the **Internal ID** column to the Instance ID from BRM to the value above. For example: **Portal**.
3. In **AIA Application**, go to **AIA Application Registry**, **Setup**, **System** and find the entry for System Code "BRM_01".
4. Change that value to the **InstanceId** from the BRM Payload Configuration file. For example: **Portal**.

7.4.4 Setting up the AIA FMW Server

Note: This step is required if **cluster** is the deployment topology.

Perform the following steps to enable tunneling:

1. Configure `http proxy host`
   a. Modify `mod_wl_ohs.conf`

      For example, `$MW_HOME/Oracle_WT1/instances/instance1/config/OHS/ohs1/mod_wl_ohs.conf`

   b. Add the following location:

      ```
      <Location / bea_wls_internal >

      SetHandler weblogic-handler

      WebLogicCluster
      adc1140309.example.com:8001,adc2101063.example.com:8011

      WLLogFile /tmp/web_log.log

      </Location>
      ```

   c. Restart using `./opmnctl stopall, ./opmnctl startall`
2. Configure WebLogic Server
   a. Log in to **WebLogic Server** console.
   b. Click **Servers** link and each manager server.
   c. Click **Protocols**, **HTTP**, **Enable Tunneling**.
   d. Save the configuration.
   e. Restart **Admin** and managed servers.

7.5 Verifying Deployment

To verify the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration deployment:

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 integration is successfully installed.

2. Confirm that the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration components were successfully installed.

   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).

   b. Log in with the server admin user name. For access details, contact the system administrator.

   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

   - AIACOMOrderFalloutNotificationJMSConsumer
   - AIAOrderFalloutJMSBridgeService
   - BillingResponseConsumer
   - Comms2CoreCustomerPartybridge
   - CommsProcessBillingAccountListEBF
   - CommsProcessFulfillmentOrderBillingAccountListEBF
   - CommunicationsCustomerPartyEBSV2
   - CommunicationsCustomerPartyEBSV2Requencer
   - CommunicationsCustomerPartyResponseEBSV2
   - Core2CommsCustomerPartyBridge
   - CreateTroubleTicketAIACommsReqImpl
   - CreateTroubleTicketSiebelCommsProvABCSImpl
   - CustomerPartyEBSV2
   - CustomerResponseConsumer
   - OrderOrchestrationConsumer
   - ProcessFOBillingAccountListRespOSMCFSCommsJMSProducer
   - ProcessFufillmentOrderBillingAccountListOSMCFSCommsJMSConsumer
   - ProcessFulfillmentOrderBillingBRMCommsAddSubProcess
   - ProcessFulfillmentOrderBillingBRMCommsDeleteSubProcess
   - ProcessFulfillmentOrderBillingBRMCommsMoveAddSubProcess
   - ProcessFulfillmentOrderBillingBRMCommsProvABCSImpl
   - ProcessFulfillmentOrderBillingBRMCommsSuspendResumeSubProcess
   - ProcessFulfillmentOrderBillingBRMCommsUpdateSubProcess
   - ProcessFulfillmentOrderBillingOSMCFSCommsJMSConsumer
   - ProcessFulfillmentOrderBillingResponseOSMCFSCommsJMSProducer
   - ProcessInstalledProductSpecialRatingSetListBRMCommsProvABCSImpl
   - ProcessInstalledProductSpecialRatingSetListSiebelCommsJMSConsumer
   - ProcessInstalledProductSpecialRatingSetListSiebelCommsReqABCSImpl
   - ProcessSalesOrderFulfillmentOSMCFSCommsJMSProducer

- ProcessSalesOrderFulfillmentSiebelCommsJMSConsumer
- ProcessSalesOrderFulfillmentSiebelCommsReqABCSImpl
- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- QueryClassificationListSiebelCommsProvABCSImpl
- QueryCustomerPartyListSiebelProvABCSImplV2
- QuerySpecificationListSiebelCommsProvABCSImpl
- QuerySpecificationValueSetListSiebelCommsProvABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncCustomerPartyListBRM_01CommsJMSConsumer
- SyncCustomerPartyListBRMCommsJMSProducer
- SyncCustomerPartyListBRMCommsProvABCSImpl
- SyncCustomerSiebelEventAggregator
- SyncDiscountBRMCommsReqABCSImpl
- SyncDiscountInfoChangeBRMAQ
- SyncItemCompositionListSiebelCommsProvABCSImpl
- SyncProductBRMCommsReqABCSImpl
- SyncProductInfoChangeBRMAQ
- TestOrderOrchestrationEBF
- TransformAppContextSiebelService
- UpdateSalesOrderOSMCFSCommsJMSConsumer
- UpdateSalesOrderSiebelCommsProvABCSImpl
- UpdateTroubleTicketSiebelCommsProvABCSImpl

7.5.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to **Oracle Enterprise Manager Fusion Middleware Control**
2. Expand **WebLogic Domain**.
3. Select **soa_domain**.
4. Right-click **soa_domain**.
5. Select **Web Services**, **Policies**.

6. Verify **Service Policy** attachment.
   a. Find **no_authentication_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.
7. Verify **Client Policy** attachment
   a. Navigate back to **Web Services Policies** screen.
   b. Navigate to **Applies To** LOV, select **Service Clients** and hit enter. Find **no_authentication_client_policy**.
   c. Click the number in **Attachment Count** column.

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

Table 7–7 No Authentication Service Policy Attachments for Comms Order to Cash: SBL and BRM

Composite	Service Policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy

Table 7–8 No Authentication Client Policy Attachments for Comms Order to Cash: SBL and BRM

Composite	Service Policy
SyncAccountSiebelReqABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationValueSetListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
SyncItemCompositionListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
CreateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QueryCustomerPartyListSiebelProvABCSImplV2	oracle/no_authentication_client_policy
QueryClassificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy

For integration implementation, see *Oracle Application Integration Architecture Oracle Communication Order to Cash Integration Pack Implementation Guide for Siebel CRM, Oracle Order and Service Management, and Oracle Billing and Revenue Management*.

Also see *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Communications Billing and Revenue Management: Agent Assisted Billing Care Implementation Guide*.

7.6 Undeploying the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

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 7–9 Undeployment Command for the Comms Order to Cash: SBL CRM and BRM Pre-Built Integration

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2B/DeploymentPlans/undeployO2B.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2B\DeploymentPlans\undeployO2B.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA"

7.7 Replacing Test Order Orchestration with your Order Management System

After doing a simple flow test of order flow using TOP process, complete the following steps to replace TOP with your own Order Management System.

This step is mandatory before going into production. TOP is not a production quality code and not a supported product feature. So it must be replaced with your Order Management system after simple sanity testing of order flow between Siebel CRM and Oracle BRM.

1. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/) using admin access and undeploy the following composites:
   - BillingResponseConsumer
   - CustomerResponseConsumer
   - OrderOrchestrationConsumer
   - TestOrderOrchestrationEBF
2. Configure your Order Management system to interact to AIA through the JMS queues listed in Table 7–10. You can find these queues in Weblogic by following these steps:
   a. Go to **Oracle Weblogic Server Administration Console**, **Domain Structure.**
   b. Select your soa domain.
   c. Go to **Services**, **Messaging**, **JMS Modules**, **AIAJMSModule**.

d. Find these queues by matching the JNDI names of the *queue* type JMS resources.

Table 7–10 JMS Queues for AIA Interactions with Order Management System

JMS Queues	Description

jms/aia/AIA_CRTFO_IN_JMSQ	Inbound queue to your Order Management system for picking up incoming Sales Order from Siebel. The order message is of type ProcessSalesOrderFulfillmentEBM, wrapped into the SOAP envelope in the following way.
	`<tns:Envelope xmlns:tns="http://schemas.xmlsoap.org/soap/envelope/">`
	`<tns:Body>`
	`<crtfo:CreateOrder xmlns:crtfo="http://xmlns.oracle.com/communications/ordermanagement">`
	`<sord:ProcessSalesOrderFulfillmentEBM xmlns:sord="http://xmlns.oracle.com/EnterpriseObjects/Core/Custom/EBO/SalesOrder/V2 ">`
	`...`
	`</sord:ProcessSalesOrderFulfillmentEBM> </crtfo:CreateOrder>`
	`</tns:Body>`
	`</tns:Envelope>`

jms/aia/AIA_CRTCUST_OUT_JMSQ	Outbound queue from your Order Management system for creating customer in Oracle BRM. The message must confirm to ProcessFulfillmentOrderBillingAccountListEBM schema. Order Management must wait for response before doing further communication with Oracle BRM for the current order.
jms/aia/AIA_UPDCUST_IN_JMSQ	This is a response queue of *jms/aia/AIA_CRTCUST_OUT_JMSQ*. It contains success response message from AIA in ProcessFulfillmentOrderBillingAccountListResponseEBM schema.
jms/aia/AIA_CRTBO_OUT_JMSQ	Outbound queue from your Order Management system for creating billing order in Oracle BRM. The message must confirm to ProcessFulfillmentOrderBillingEBM schema. Order Management must wait for response before doing further communication with Oracle BRM for the current order message.
jms/aia/AIA_UPDBO_IN_JMSQ	This is a response queue of *jms/aia/AIA_CRTBO_OUT_JMSQ*. It contains success response message from AIA in ProcessFulfillmentOrderBillingResponseEBM schema.
jms/aia/AIA_UPDSO_OUT_JMSQ	Outbound queue from your Order Management system for updating Order information in Siebel CRM. The message must confirm to UpdateSalesOrderEBM schema. This is an asynchronous flow, so no response is sent back to Order Management.

8

Configuring and Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

This chapter discusses how to configure and deploy the Oracle Communications Order to Cash Integration Pack for Siebel Customer Relationship Management and Oracle Communications Order and Service Management (Comms Order to Cash: SBL CRM and OSM Pre-Built Integration).

This chapter includes the following sections:

- Section 8.1, "Deployment Configuration Wizard"
- Section 8.2, "Configuring and Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration"
- Section 8.3, "Performing Postdeployment Configurations"
- Section 8.4, "Verifying Deployment"
- Section 8.5, "Undeploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration"

8.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration. Enter the details of the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

8.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components are deployed to the integration server. This screen contains the following fields:

Table 8–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin User name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

8.1.2 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 8–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	This is a computer name of the Siebel host. For example: `example1.corp.siebel.com`. To find the value, contact your administrator. Siebel Host name 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 _____
InternetProtocol	This value is the Siebel host internet protocol. For example, http://. To find the value, contact your administrator. InternetProtocol is _____ **Note:** Our internal environments are always on http://. The default value is https// and must be changed for Siebel web services and Session Pool Manager services to work.
Siebel Enterprise Server Name	This value is the Siebel enterprise server name. For example, siebel. To find the value, contact your administrator. Siebel Enterprise Server Name is _____ **Note:** This value must be in lowercase (siebel) for the Update Account flow to work.
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 8–2 (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 Version	Version of application, for example Siebel 8.1.1 SIA. To find the value, contact your administrator. Kindly ensure that the value is only 10 character long. Siebel Version is _____
Siebel Language	This is the language used by the Siebel application. For example, *enu*. To find the value, contact your administrator. Siebel Language is _____

8.1.3 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 8–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer 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 SID	This is the Siebel database system ID. For example: `qa7a`. To find the value, contact your database administrator. Siebel Database SID 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 _____

8.1.4 Oracle OSM Server Details Screen

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

Table 8–4 Oracle OSM Server Details Screen

Field	Description
OSM CFS Admin Username	This is the OSM admin user name used to connect to the OSM server. For example, `osm`. To find this value, contact your Oracle OSM administrator. OSM CFS Admin Username is _____
OSM CFS Admin Password	This is the OSM admin password used to connect to the OSM server. For example, `osmadmin`. To find this value, contact your Oracle OSM administrator. OSM CFS Admin Password is _____
OSM Provisioning Admin Username	This is the admin user used to connect to the OSM Provisioning server. For example, `osmlf`. To find this value, contact your OSM administrator. OSM Provisioning Admin Username is _____

Table 8–4 (Cont.) Oracle OSM Server Details Screen

Field	Description
OSM Provisioning Admin Password	This is the admin password used to connect to the OSM Provisioning server. For example, `osmadmin`. To find this value, contact your OSm administrator. OSM Provisioning Admin Password is _____
OSM CFS WL JMS Queue Access Host	This is the Weblogic host name for accessing inbound JMS queues for OSM CFS. For example, `hostname.example.com`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Host is _____ ___
OSM CFS WL JMS Queue Access Port	This is the Weblogic port number for accessing inbound JMS queues for OSM CFS. For example, `7080`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Port is _____ __
OSM CFS WL JMS Queue Access Username	This is the Weblogic user name for accessing inbound JMS queues for OSM CFS. For example, `osm`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Username is _____
OSM CFS WL JMS Queue Access Password	This is the Weblogic password for accessing inbound JMS queues for OSM CFS. For example, `osmadmin`. To find this value, contact your administrator. OSM CFS WL JMS Queue Access Password is _____
OSM Provisioning WL JMS Queue Access Host	This is the Weblogic host used for accessing inbound JMS queues for OSM Provisioning. For example, `hostname.example.com`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Host is _____ _____
OSM Provisioning WL JMS Queue Access Port	This is the Weblogic port number used for accessing inbound JMS queues for OSM Provisioning. For example, `7080`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Port is _____ _____
OSM Provisioning WL JMS Queue Access Username	This is the Weblogic user name for accessing inbound JMS queues for OSM Provisioning. For example, `osmlf`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Username is _____ _____
OSM Provisioning WL JMS Queue Access Password	This is the Weblogic password for accessing inbound JMS queues for OSM Provisioning. For example, `osmadmin`. To find this value, contact your Oracle OSM administrator. OSM Provisioning WL JMS Queue Access Password is _____ _____

8.1.5 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

The `http.proxyHost` and `http.proxyPort` properties are set during the configuration in the DCW. If you do not have a proxy server, leave these properties blank. This step is required before you can deploy the integration.

For more information, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*.

Table 8–5 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Caution: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

8.2 Configuring and Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

8.2.1 Configuring the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration. Keep the completed worksheets of the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration screens ready before you launch the DCW.

To configure the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration:

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

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. Restart 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 DCW.

6. Click **Next.**
7. Expand **Communications Pre-built Integrations** and select **Comms Order to Cash: Siebel CRM and OSM**.
8. Click **Next**.

8.2.1.1 Specify Integration Server Details

To specify integration server details:

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

8.2.1.2 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.**

8.2.1.3 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.**

8.2.1.4 Specify Oracle OSM Server Details

To specify Oracle OSM server details:

1. Enter Oracle OSM server information in the **Oracle OSM Server Details** screen.
2. Click **Next.**

8.2.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 8.2.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

---

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

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

   The system displays any necessary warnings or errors. You can review the configuration log for additional details. The configuration log location is displayed in **Configuration Progress** screen.

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

8.2.2 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.

8.2.3 Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 8–6 Deployment Commands for the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2A/DeploymentPlans/deployO2A.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2A\DeploymentPlans\deployO2A.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/O2ADP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

Integrations, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

8.3 Performing Postdeployment Configurations

This section discusses post deployment configuration for Comms Order to Cash: SBL CRM and OSM Pre-Built Integration. This section includes:

- Section 8.3.1, "Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets"
- Section 8.3.2, "Supporting Message Priority"
- Section 8.3.3, "Adding Security Policy to the QueryProductClassAndAttributesSCECommsReqABCSImpl Service"
- Section 8.3.4, "Setting up the AIA FMW Server"

8.3.1 Suppressing Auto-Retry and Preventing Multiple Error Notifications and Trouble Tickets

This step is necessary to ensure that an transaction does not get auto tried using Database or SOA's inbuilt auto retry mechanism. Relying on Database or SOA's inbuild retry would cause undesirable effect on AIA flows and end to end transactionlity.

To suppress auto-retry and prevent multiple error notifications and trouble tickets:

1. Set the `GlobalTxMaxRetry` property for outbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Click **More SOA Infra Advanced Configuration Properties**.
   e. Search for the `GlobalTxMaxRetry` property and set the value as *0* (zero).

2. Set the `GlobalInboundJcaRetryCount` property for inbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **Administration, System Mbean Browser**.
   d. Search for **oracle.as.soainfra.config**, expand **<Server>**, expand **AdapterConfig**.
   e. Select **Adapter**.
   f. Search for the `GlobalInboundJcaRetryCount` property and set the value as *0* (zero).
3. Change **Audit Level** from *Development* to *Production* for soa infrastructure:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Choose *Production* from the **Audit Level** list.
   e. Click **Apply**.
4. **Stop** and **Start** the SOA and Admin Server so that your changes can take effect.

8.3.2 Supporting Message Priority

As part of supporting message priority, follow the below steps to configure the queues (AIA_CRTBO_OUT_JMSQ, AIA_CRTCUST_OUT_JMS, AIA_CRTFO_OUT_JMSQ, AIA_FOPROV_OUT_JMSQ) so that the message is prioritized based on JMSPriority.

1. Creating Destination Sort Key based on JMSPriority
   a. Log in to <httphost>:<httpport>/console
   b. Navigate to **Services**, **Messaging**, **JMS Modules**
   c. Click **AIAJMSModule**
   d. Click **New** and select **Destination Sort Key** option
   e. Give a name AIA_SALESORDERJMSPRIORITY_KEY, click **OK**. The key is created
   f. Click **AIA_SALESORDERJMSPRIORITY_KEY** link and choose **JMSPriority** from the **Sort Key** drop down list
   g. Select **Key Type** as **Int**
   h. Select **Direction as Descending**
   i. Click **Save**
2. Attaching Destination Sort Key to JMS Queues
   a. Click **AIAJMSModule**
   b. Click **AIA_CRTBO_OUT_JMSQ**
   c. In **The Destination Keys** section, newly created **Key** is displayed. Select and choose the key
   d. Click **Save**
3. Repeat steps 2a to 2d for the following queues:

- AIA_CRTCUST_OUT_JMSQ
- AIA_CRTFO_OUT_JMSQ
- AIA_FOPROV_OUT_JMSQ

8.3.3 Adding Security Policy to the QueryProductClassAndAttributesSCECommsReqABCSImpl Service

Add the following security policy to have the Product Class SCE flow working from the OSM Design Studio.

Caution: This step is only required if you are using OSM 7.0.2 version.

To add the security policy:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control (http://<host>:<port>/em).
2. Select the service `QueryProductClassAndAttributesSCECommsReqABCSImpl`.
3. Scroll down to the **Services and References** section and select the `QueryProductClassAndAttributesSCECommsReqABCSImpl` link.
4. Go to the **Policies** tab.
5. Go to the **Directly Attached Policies** section and click **Attach/Detach**.
6. Select `oracle/no_authentication_service_policy` and click **Attach**.
7. Click **OK**.
8. Verify that `oracle/no_authentication_service_policy` is attached.

8.3.4 Setting up the AIA FMW Server

Note: This step is required if **cluster** is the deployment topology.

Perform the following steps to enable tunneling:

1. Configure `http proxy host`
   a. Modify `mod_wl_ohs.conf`

      For example, `$MW_HOME/Oracle_WT1/instances/instance1/config/OHS/ohs1/mod_wl_ohs.conf`

   b. Add the following location:

      ```
      <Location / bea_wls_internal >

      SetHandler weblogic-handler

      <Node1Servername: Portno>,<Node2Servername: Portno>

      WLLogFile /tmp/web_log.log

      </Location>
      ```

   c. Restart using `./opmnctl stopall, ./opmnctl startall`
2. Configure WebLogic Server

a. Log in to **WebLogic Server Console**.

b. Click **Servers**link and each manager server.

c. Click **Protocols**, **HTTP**, **Enable Tunneling**.

d. Save the configuration.

e. Restart **Admin** and managed servers.

3. Configure OSM SAF Remote Context if OSM Fulfillment system is clustered

   a. Navigate to console `<host>:<port>/console`.

   b. Navigate to **Home, JMS Modules, AIAJMSModule, OSM (SAF Remote Context).**

   c. Select **Lock** and **Edit**: update the URL to include all the OSM clustered nodes.

      For example,
      t3://coqalv0045.example.com:7070,coqalv0046.example.com:8070.

   d. **Save** and **Release** the configuration.

4. Configure SOM SAF Remote Context if OSM Provisioning system is clustered

   a. Navigate to console `<host>:<port>/console`.

   b. Navigate to **Home, JMS Modules, AIAJMSModule, SOM (SAF Remote Context)**.

   c. Select **Lock** and **Edit**: update the URL to include all the OSM clustered nodes.

      For example,
      t3://coqalv0045.example.com:7070,coqalv0046.example.com:8070.

   d. **Save** and **Release** the configuration.

8.4 Verifying Deployment

To verify the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration deployment:

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 integration is successfully installed.

2. Confirm that the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration components were successfully deployed.

   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).

   b. Log in with the server admin user name. For access details, contact the system administrator.

   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for items listed below.

   - CommunicationsClassificationEBSV1
   - CommunicationsSpecificationValueSetEBSV1

- AIAOrderFalloutJMSBridgeService
- CreateFaultNotificationLFCommsJMSConsumer
- CreateOrderFalloutNotificationOSMCFSCommsJMSConsumer
- CreateOrderFalloutNotificationOSMCFSCommsJMSProducer
- CreateOrderFalloutNotificationOSMCFSCommsProvImpl
- CreateTroubleTicketOSMCFSCommsJMSConsumer
- CreateTroubleTicketRespOSMCFSCommsJMSProducer
- CreateTroubleTicketSiebelCommsProvABCSImpl
- CustomerPartyEBSV2
- ProcessFOBillingAccountListRespOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderBillingAccountListOSMCFSCommsJMSConsumer
- ProcessFulfillmentOrderBillingOSMCFSCommsJMSConsumer
- ProcessFulfillmentOrderBillingResponseOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderUpdateOSMCFSCommsJMSProducer
- ProcessFulfillmentOrderUpdateOSMPROVCommsJMSConsumer
- ProcessProvisioningOrderOSMCFSCommsJMSConsumer
- ProcessProvisioningOrderOSMPROVCommsJMSProducer
- ProcessSalesOrderFulfillmentOSMCFSCommsJMSProducer
- ProcessSalesOrderFulfillmentSiebelCommsJMSConsumer
- ProcessSalesOrderFulfillmentSiebelCommsReqABCSImpl
- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- QueryClassificationListSiebelCommsProvABCSImpl
- QueryCustomerPartyListSiebelProcCommsABCSImplV2
- QueryProductClassAndAttributesSCECommsReqABCSImpl
- QuerySpecificationListSiebelCommsProvABCSImpl
- QuerySpecificationValueSetListSiebelCommsProvABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncCustomerSiebelEventAggregator
- SyncItemCompositionListSiebelCommsProvABCSImpl
- TransformAppContextSiebelService
- UpdateSalsOrderOSMCFSCommsJMSConsumer
- UpdateSalesOrderSiebelCommsProvABCSImpl

- UpdateTroubleTicketOSMCFSCommsJMSConsumer
- UpdateTroubleTicketSiebelCommsProvABCSImpl

8.4.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control.
2. Expand **WebLogic Domain**.
3. Select **soa_domain**.
4. Right-click **soa_domain**.
5. Select **Web Services**, **Policies**.
6. Verify **Service Policy** attachment.
   a. Find **no_authentication_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 (1)`.
   d. Validate that all the composites are listed with local attachment to this service policy.
7. Verify **Client Policy** attachment
   a. Navigate back to **Web Services Policies** screen.
   b. Navigate to **Applies To LOV**, select **Service Clients** and hit enter. Find **no_authentication_client_policy**.
   c. Click the number in **Attachment Count** column.

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

Table 8–7 No Authentication Service Policy Attachments for Comms Order to Cash: SBL and OSM

Composite	Service Policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy

Table 8–8 No Authentication Client Policy Attachments for Comms Order to Cash: SBL CRM and OSM

Composite	Service Policy
SyncAccountSiebelReqABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QuerySpecificationValueSetListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy

Table 8–8 (Cont.) No Authentication Client Policy Attachments for Comms Order to Cash: SBL CRM and

Composite	Service Policy
SyncItemCompositionListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
UpdateSalesOrderSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
CreateTroubleTicketSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
QueryCustomerPartyListSiebelProvABCSImplV2	oracle/no_authentication_client_policy
QueryClassificationListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy

Note: In the Oracle Enterprise Manager Fusion Middleware Control, the *ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl* composite is listed with port *SWIPriceListItem* and *SWIProductImport*.

For integration implementation, see *Oracle Application Integration Architecture Oracle Communication Order to Cash Integration Pack Implementation Guide for Siebel CRM, Oracle Order and Service Management, and Oracle Billing and Revenue Management*.

8.5 Undeploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

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 8–9 Undeployment Command for the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`$AIA_HOME/pips/Communications/O2A/DeploymentPlans/undeployO2A.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\Communications\O2A\DeploymentPlans\undeployO2A.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA"

9

Configuring and Deploying Customer MDM Base Pack

This chapter discusses how to configure and deploy the Oracle Customer Master Data Management Integration Base Pack (Customer MDM Base Pack).

This chapter includes the following sections:

- Section 9.1, "Deployment Configuration Wizard"
- Section 9.2, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 9.3, "Configuring and Deploying the Customer MDM Base Pack"
- Section 9.4, "Verifying Deployment"
- Section 9.5, "Undeploying Customer MDM Base Pack"

9.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of Customer MDM Base Pack. Enter the details of the Customer MDM Base Pack screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

9.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 9–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name is _____

Table 9–1 (Cont.) Integration 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, Domain Name, Admin User name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

9.1.2 Oracle Customer Hub (OCH) Screen

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

Table 9–2 Oracle Customer Hub (OCH) Screen Fields

Field	Description
OCH Host Name	Specifies the fully qualified computer name of the OCH application. Example: `example1.corp.siebel.com`. OCH Host name is _____
OCH HTTP Port	Specifies the Siebel UCM application port. To find this value, contact your administrator. Example: `8024`. OCH `HTTP` Port is _____
OCH EAI Application User	To find this value, contact the database administrator. OCH EAI Application User is _____
OCH EAI Application Password	To find this value, contact the database administrator. OCH EAI Application Password is _____
OCH Enterprise Server Name	To find this value, contact the database administrator. OCH Enterprise Server Name is _____
OCH Version	Specifies the version of the OCH application.
Language	Species the language used by the application. For example, enu.
Internet Protocol	Specifies the internet protocol. For example, http://.

9.2 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. Section 9.3 discusses configuring and deploying the Customer MDM Base Pack. For detailed instructions on the other MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Customer Routing Rules following the instructions discussed in Chapter 13, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

3. Configure and deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

9.3 Configuring and Deploying the Customer MDM Base Pack

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

9.3.1 Configuring the Customer MDM Base Pack

The screens that appear prompt you to enter the data that is required for successful configuration of Customer MDM Base Pack. Keep the completed worksheets of the Customer MDM Base Pack screens ready before you launch the DCW.

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

To configure Customer MDM Base Pack:

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. Restart 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 DCW.
6. Click **Next.**
7. Select **Oracle Customer Master Data Management Integration Base Pack** under **Customer Master Data Management Pre-Build Integrations**
8. Click **Next**.

9.3.1.1 Specify Integration Server Details

To specify integration server details:

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

9.3.1.2 Specify Oracle Customer Hub Server Details

To specify Oracle Customer Hub Server details:

1. Enter information about your Oracle Customer Hub Server in the **Application Details - Oracle Customer Hub** screen.
2. Click **Next.**

9.3.1.3 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 9.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.
3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

9.3.2 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.

9.3.3 Deploying the Customer MDM Base Pack

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 9–3 Deployment Commands for Customer MDM Base Pack

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerBase/DeploymentPlans/deployMDMCustomerBase.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%/pips/MDMCustomerBase/DeploymentPlans/deployMDMCustomerBase.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMCustomerBaseDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

9.4 Verifying Deployment

To verify the Customer MDM Base Pack deployment:

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 integration 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 integration is successfully installed.

2. Confirm that Customer MDM Base Pack services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - FetchCustomerPartyEBF
   - ProcessPersonUCMReqABCSImpl
   - QueryCustomerPartyListUCMProvABCSImpl
   - QueryCustomerPartyUCMProvABCSImpl
   - SyncCustomerPartyListResponseUCMProvABCSImpl
   - SyncCustomerPartyListUCMProvABCSImpl
   - SyncOrganizationUCMJMSConsumer
   - SyncOrganizationUCMJMSProducer
   - SyncOrganizationUCMReqABCSImpl
   - SyncPersonUCMJMSConsumer
   - SyncPersonUCMJMSProducer
   - SyncPersonUCMReqABCSImpl
   - TransformAppContextUCMService

9.4.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
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 9–4 Service Policy Attachments for Customer MDM Base Pack

Composite	Service Policy
TransformAppContextUCMService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 9–5 No Authentication Service Policy Attachments for Customer MDM Base Pack

Composite	Service Policy
SyncOrganizationUCMJMSProducer	oracle/no_authentication_service_policy
SyncPersonUCMJMSProducer	oracle/no_authentication_service_policy
ProcessPersonUCMReqABCSImpl	oracle/no_authentication_service_policy

Table 9–6 Saml Opt On Client Policy Attachments for Customer MDM Base Pack

Composite	Reference	Client Policy
TransformAppContextUCMService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_ OPT_ON

For integration implementation, see *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

9.5 Undeploying Customer MDM Base Pack

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 9–7 Undeployment Command for Customer MDM Base Pack

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_ HOME/pips/MDMCustomerBase/DeploymentPlans/undeployMDMCustomerBase.sh`
Microsoft Windows (32-bit)	`%AIA_ HOME%\pips\MDMCustomerBase\DeploymentPlans\undeployMDMCustomerBase.bat`

3. Restart the SOA server.

4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

10

Configuring and Deploying Customer MDM: Siebel CRM

This chapter discusses how to configure and deploy Oracle Customer Master Data Management Integration Option for Siebel CRM (Customer MDM: Siebel CRM).

This chapter includes the following sections:

- Section 10.1, "Deployment Configuration Wizard"
- Section 10.2, "Session Pool Manager Details Screen"
- Section 10.3, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 10.4, "Configuring and Deploying Customer MDM: Siebel CRM"
- Section 10.5, "Postdeployment Configuration"
- Section 10.6, "Verifying Deployment"
- Section 10.7, "Undeploying Customer MDM: Siebel CRM"

10.1 Deployment Configuration Wizard

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

10.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 10–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 10–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin User Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name 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, Domain Name, Admin User name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

10.1.2 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 10–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	This value is the fully qualified computer name of the Siebel CRM application. Example: `example1.corp.siebel.com`. Siebel Host name is _____
Siebel HTTP Port	This value is the Siebel CRM application port. To find this value, contact your administrator. Example: `8024`. Siebel HTTP Port is _____
Siebel Internet Protocol	Specifies the Siebel host internet protocol. For example: http://. Siebel host internet protocol is _____
Siebel EAI Application User	To find this value, contact your administrator. Siebel EAI Application User is _____
Siebel EAI Application Password	To find this value, contact your administrator. Siebel EAI Application Password is _____
Siebel Enterprise Server Name	To find this value, contact your administrator. Siebel Enterprise Server Name is _____
Siebel Version	This is the version of the Siebel CRM application.
Siebel Language	This is the language used by the Siebel application. For example, enu. Siebel Language is _____

10.1.3 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 10–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer name. To find this value, contact the database administrator. Example: `server1.corp.siebel.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	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	To find this value, contact the database administrator. Siebel Database Password is _____
Siebel Database SID	To find this value, contact the database administrator. Siebel Database System ID is _____

10.2 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

Table 10–4 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Caution: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

10.3 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. Section 10.4 discusses configuring and deploying the Customer MDM: Siebel CRM. For detailed instructions on the other MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.

2. Deploy the MDM Customer Routing Rules following the instructions discussed in Chapter 13, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.
3. Configure and deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

10.4 Configuring and Deploying Customer MDM: Siebel CRM

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

10.4.1 Configuring Customer MDM: Siebel CRM

The screens that appear prompt you to enter the data that is required for successful configuration of Customer MDM: Siebel CRM. Keep the completed worksheets Customer MDM: Siebel CRM screens ready before you launch the DCW.

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

To configure Customer MDM: Siebel CRM:

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. Restart 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 DCW.
6. Click **Next.**
7. Select **Oracle Customer Master Data Management Integration Option for Siebel CRM** under **Customer Master Data Management Pre-Build Integrations**
8. Click **Next**.

10.4.1.1 Specify Integration Server Details

To specify integration Server details:

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

10.4.1.2 Specify Siebel CRM Server Details

To specify Siebel CRM Server details:

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

10.4.1.3 Specify Siebel CRM Database Details

To specify Siebel CRM Database details:

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

10.4.1.4 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.**

10.4.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 10.4.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

10.4.2 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.

10.4.3 Deploying Customer MDM: Siebel CRM

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 10–5 Deployment Commands for Customer MDM: Siebel CRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerSiebel/DeploymentPlans/deployMDMCustomerSiebel.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerSiebel\DeploymentPlans\deployMDMCustomerSiebel.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMCustomerSiebelDP_Deployments_ YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

10.5 Postdeployment Configuration

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

10.6 Verifying Deployment

To verify the Customer MDM: Siebel CRM deployment:

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 integration 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 integration is successfully installed.
2. Confirm that Customer MDM: Siebel CRM services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - AIASessionPoolManager
   - FetchAccountSiebelReqABCSImpl
   - FetchContactSiebelReqABCSImpl
   - FetchCustomerPartyEBF
   - MatchAccountSiebelReqABCSImpl

- MatchContactSiebelReqABCSImpl
- SyncAccountSiebelAggregatorAdapter
- SyncAccountSiebelReqABCSImpl
- SyncAcctSiebelAggrEventConsumer
- SyncAddressSiebelAggregatorAdapter
- SyncBPSiebelAggregatorAdapter
- SyncContactSiebelAggregatorAdapter
- SyncContactSiebelReqABCSImpl
- SyncContSiebelAggrEventConsumer
- SyncCustomerPartyListResponseSiebelProvABCSImpl
- SyncCustomerPartyListSiebelProvABCSImpl
- TransformAppContextSiebelService

For more information about the DVMs to be verified, see *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

3. Verify whether Session Pool Manager is successfully installed and ensure that the Siebel server is active.
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Expand **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1), Default** and click **AIASessionPoolManager** on the left panel.
   c. Click **Test**.
   d. Enter **Operation** = `Start`.
   e. Under the collapsible section titled **Security**, select **WSS Username Token** and enter the WLS admin user name and password.
   f. Under **Input Arguments**, **Enter HostId** = `SEBL_01`.
   g. Click **Test Web Service**.

   You should see a successful initialization response message. For more information and troubleshooting steps, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager".

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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
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 10–6 Service Policy Attachments for Customer MDM Siebel CRM

Composite	Service Policy
TransformAppContextSiebelService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 10–7 No Authentication Service Policy Attachments for Customer MDM Siebel CRM

Composite	Service Policy
SyncCustomerSiebelEventAggregator	oracle/no_authentication_service_policy
MatchAccountSiebelReqABCSImpl	oracle/no_authentication_service_policy
MatchContactSiebelReqABCSImpl	oracle/no_authentication_service_policy
FetchAccountSiebelReqABCSImpl	oracle/no_authentication_service_policy
FetchContactSiebelReqABCSImpl	oracle/no_authentication_service_policy

Table 10–8 Saml Opt On Client Policy Attachments for Customer MDM Siebel CRM

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

For integration implementation, see *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

10.7 Undeploying Customer MDM: Siebel CRM

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 10–9 Undeployment Command for Customer MDM: Siebel CRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerSiebel/DeploymentPlans/undeployMDMCustomerSiebel.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerSiebel\DeploymentPlans\undeployMDMCustomerSiebel.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

11

Configuring and Deploying Customer MDM: E-Business Suite

This chapter discusses how to configure and deploy the Oracle Customer Master Data Management Integration Option for Oracle E-Business Suite (Customer MDM: EBS).

This chapter includes the following sections:

- Section 11.1, "Deployment Configuration Wizard"
- Section 11.2, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 11.3, "Configuring and Deploying Customer MDM: EBS"
- Section 11.4, "Verifying Deployment"
- Section 11.5, "Undeploying Customer MDM: EBS"

11.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of Customer MDM: EBS. Enter the details of Customer MDM: EBS screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

11.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 11–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name is _____

Table 11–1 (Cont.) Integration 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, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

11.1.2 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 computer 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.EXAMPLE.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 for the Customer Hub integration is 11.5.10, 12.1.1, 12.1.2 or 12.1.3. Other versions are not supported in the 3.1 release.

11.1.3 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 computer 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 _____

Table 11–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
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`. This field is optional for this integration. Database Schema is _____ **Note:** All the database credentials are used for creating the connection pool URL and data source URLs.

11.2 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. Section 11.3 discusses configuring and deploying the Customer MDM: EBS. For detailed instructions on the other MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Customer Routing Rules following the instructions discussed in Chapter 13, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.
3. Configure and deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

11.3 Configuring and Deploying Customer MDM: EBS

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

11.3.1 Configure Customer MDM: EBS

The section discusses the configuration process. The screens that appear prompt you to enter the data that is required for successful configuration of Customer MDM: EBS. Keep the completed worksheets Customer MDM: EBS screens ready before you launch the DCW.

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

To configure Customer MDM: 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. Restart 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 DCW.
6. Click **Next.**
7. Select **Oracle Customer Master Data Management Integration Option for Oracle E-Business Suite** under **Customer Master Data Management Pre-Build Integrations**
8. Click **Next**.

11.3.1.1 Specify Integration Server Details

To specify integration server details:

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

11.3.1.2 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.**

11.3.1.3 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 in the **E-Business Suite Database Details** screen.
2. Click **Next.**

11.3.1.4 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 11.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

11.3.2 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.

11.3.3 Deploying Customer MDM: 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: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 11–4 Deployment Commands for Customer MDM: EBS

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerEbiz/DeploymentPlans/deployMDMCustomerEbiz.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerEbiz\DeploymentPlans\deployMDMCustomerEbiz.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMCustomerEbizDP_Deployments_ YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

11.4 Verifying Deployment

To verify the Customer MDM: EBS deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Customer MDM: EBS processes were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- QueryCustomerPartyListEbizCreateAdapter
- QueryCustomerPartyListEbizUpdateAdapter
- QueryPersonAccountEbizCreateAdapter
- QueryPersonAccountEbizUpdateAdapter
- QueryResponsibilityEbizAdapter
- SyncCustomerPartyListEbizAdapter
- SyncCustomerPartyListEbizEventConsumer
- SyncCustomerPartyListEbizProvABCSImpl
- SyncCustomerPartyListEbizReqABCSImpl
- SyncCustomerPartyListPersonEbizAdapter
- SyncCustomerPartyListResponseEbizProvABCSImpl
- SyncPersonAccountEbizEventConsumer
- SyncPersonAccountEbizReqABCSImpl
- TransformAppContextEbizService

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

11.4.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
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 11–5 Service Policy Attachments for Customer MDM: EBS

Composite	Service Policy
TransformAppContextEbizService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 11–6 Saml Opt On Client Policy Attachments for Customer MDM EBS Pack

Composite	Reference	Client Policy
TransformAppContextEbizService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

For integration implementation, see *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

11.5 Undeploying Customer MDM: EBS

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 11–7 Undeployment Command for Customer MDM: EBS

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerEbiz/DeploymentPlans/undeployMDMCustomerEbiz.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerEbiz\DeploymentPlans\undeployMDMCustomerEbiz.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

12

Configuring and Deploying Customer MDM: Comms BRM

This chapter discusses how to configure and deploy the Oracle Customer Master Data Management Integration Option for Oracle Communications Billing and Revenue Management (Customer MDM: Comms BRM).

This chapter includes the following sections:

- Section 12.1, "Deployment Configuration Wizard"
- Section 12.2, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 12.3, "Configuring and Deploying Customer MDM: Comms BRM"
- Section 12.4, "Verifying Deployment"
- Section 12.5, "Undeploying the Customer MDM: Comms BRM"

12.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of Customer MDM: Comms BRM. Enter the details of Customer MDM: Comms BRM screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

12.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 12–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name is _____

Table 12–1 (Cont.) Integration 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, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

12.1.2 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 12–2 Oracle Communications BRM Screen Fields

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ database administrator System Administrator Port Number is _____
Database Host Name	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator Database Host name is _____
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example: `portalUser`. To find this value, contact your Oracle AQ database administrator.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ database administrator. Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

12.2 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. Section 12.3 discusses configuring and deploying the Customer MDM: Comms BRM. For detailed instructions on the other MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Customer Routing Rules following the instructions discussed in Chapter 13, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.
3. Configure and deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

12.3 Configuring and Deploying Customer MDM: Comms BRM

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

12.3.1 Configure Customer MDM: Comms BRM

The section discusses the configuration process. The screens that appear prompt you to enter the data that is required for successful configuration of Customer MDM: Comms BRM. Keep the completed worksheets Customer MDM: Comms BRM screens ready before you launch the DCW.

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

To configure Customer MDM: Comms BRM:

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. Restart 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 DCW.
6. Click **Next**
7. Select **Oracle Customer Master Data Management Integration Option for BRM** under **Customer Master Data Management Pre-Build Integrations**

8. Click **Next**

12.3.1.1 Specify Integration Server Details

To specify integration server details:

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

12.3.1.2 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

12.3.1.3 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 12.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

12.3.2 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.

12.3.3 Deploying the Customer MDM: Comms BRM

This section discussed the deployment of the Customer MDM: Comms BRM integration.

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 12–3 Deployment Commands for Customer MDM: Comms BRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerBRM/DeploymentPlans/deployMDMCustomerBRM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerBRM\DeploymentPlans\deployMDMCustomerBRM.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMCustomerBRMDP_Deployments_ YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

12.4 Verifying Deployment

To verify the Customer MDM: Comms BRM deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Customer MDM: Comms BRM services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - CommunicationsCustomerPartyEBSV2
   - CommunicationsCustomerPartyResponseEBSV2
   - Core2CommsCustomerPartyBridge
   - SyncCustomerPartyListBRM_01CommsJMSConsumer
   - SyncCustomerPartyListBRMCommsJMSProducer
   - SyncCustomerPartyListBRMCommsProvABCSImpl

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Customer Master Data Management Integration Pack Implementation Guide*.

12.5 Undeploying the Customer MDM: Comms BRM

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 12–4 Undeployment Command for Customer MDM: Comms BRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomerBRM/DeploymentPlans/undeployMDMCustomerBRM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomerBRM\DeploymentPlans\undeployMDMCustomerBRM.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

13

Deploying Customer MDM: Routing Rules

This chapter discusses how to deploy Oracle Customer Master Data Management: Routing Rules (Customer MDM: Routing Rules).

This chapter includes the following sections:

- Section 13.1, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 13.2, "Deploying Customer MDM: Routing Rules"
- Section 13.3, "Verifying Deployment"
- Section 13.4, "Undeploying Customer MDM: Routing Rules"

13.1 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. For detailed instructions on the MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Customer Routing Rules following the instructions discussed in Section 13.2, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.
3. Configure and deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Chapter 14, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

13.2 Deploying Customer MDM: Routing Rules

To deploy the routing rules 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.

Table 13–1 Deployment Commands for Customer MDM: Routing Rules

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomer/DeploymentPlans/deployMDMCustomerEBS.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomer\DeploymentPlans\deployMDMCustomerEBS.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMCustomerEBSDP_Deployments_YYYY-MM-DD_HH-MI-SS.log 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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

13.3 Verifying Deployment

To verify the Customer MDM: Routing Rules deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Customer MDM: Routing services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- CustomerPartyEBSV2
- CustomerPartyResponseEBSV2
- CustomerPartyOrchestrationEBSV2
- CustomerPartyOrchestrationResponseEBSV2
- ProcessCustomerPartyEBS

13.4 Undeploying Customer MDM: Routing Rules

To undeploy the routing rules 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 13–2 Undeployment Command for Customer MDM: Routing Rules

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMCustomer/DeploymentPlans/undeployMDMCustomerEBS.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMCustomer\DeploymentPlans\undeployMDMCustomerEBS.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA".

14

Deploying Customer MDM: Match Fetch Enterprise Composite Application

This chapter discusses how to configure and deploy Oracle Customer Data Management: Match Fetch Enterprise Composite Application (Customer MDM: Match Fetch Enterprise Composite Application).

This chapter includes the following sections:

- Section 14.1, "Overall Configuration and Deployment of MDM Customer Integrations"
- Section 14.2, "Deploying Customer MDM: Match Fetch Enterprise Composite Application"
- Section 14.3, "Verifying Deployment"
- Section 14.4, "Undeploying Customer MDM: Match Fetch Enterprise Composite Application"

14.1 Overall Configuration and Deployment of MDM Customer Integrations

The overall MDM Customer integration consists of four component integrations: MDM Customer Base Pack (UCM) and three other options: MDM Customer Siebel, MDM Customer E-Business Suite and MDM Customer BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Customer component integrations. For detailed instructions on the MDM Customer integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Customer Routing Rules following the instructions discussed in Chapter 13, "Deploying Customer MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.
3. Deploy the MDM Customer Match Fetch Enterprise Composite Application following the instructions in Section 14.2, "Deploying Customer MDM: Match Fetch Enterprise Composite Application". This UI application enables match and fetch of customers from the hub.

14.2 Deploying Customer MDM: Match Fetch Enterprise Composite Application

Note: The Match Fetch Enterprise Composite Application available for previous versions of AIA is different from the one available for AIA 11.5. You must install and configure the latest Match Fetch Enterprise Composite Application available for this release.

To deploy the ADF-based UI 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.

Table 14–1 Deployment Command for Customer MDM: Match Fetch Enterprise Composite Application

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/services/core/UCM/UtilityServices/CustomerHub/DeploymentPlans/deployCustomerHUBMatchAndFetchApp.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\services\core\UCM\UtilityServices\CustomerHub\DeploymentPlans\deployCustomerHUBMatchAndFetchApp.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/CustomerHUBMatchAndFetchAppDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment.

14.3 Verifying Deployment

To verify the Customer MDM: Match Fetch Enterprise Composite Application deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Proxy services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.

- MatchAccountEBSProxyService
- MatchContactEBSProxyService
- FetchAccountEBSProxyService
- FetchContactEBSProxyService

3. Confirm the installed application is accessible using the following URL -
   a. For Account Match-Fetch: http://<server name>:<port number>/CustomerHub-matchfetch-context-root/faces/Organization.jspx
   b. For Contact Match-Fetch: http://<server name>:<port number>/CustomerHub-matchfetch-context-root/faces/Person.jspx

14.4 Undeploying Customer MDM: Match Fetch Enterprise Composite Application

To undeploy the Match Fetch application 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 14–2 Undeployment Command for Customer MDM: Match Fetch Enterprise Composite Application

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/services/core/UCM/UtilityServices/CustomerHub/DeploymentPlans/undeployCustomerHUBMatchAndFetchApp.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\services\core\UCM\UtilityServices\CustomerHub\DeploymentPlans\undeployCustomerHUBMatchAndFetchApp.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA"

15

Configuring and Deploying Product MDM Base Pack

This chapter discusses how to configure and deploy the Oracle Product Master Data Management Integration Base Pack (Product MDM Base Pack).

This chapter includes the following sections:

- Section 15.1, "Deployment Configuration Wizard"
- Section 15.2, "Performing Predeployment Configurations"
- Section 15.3, "Overall Configuration and Deployment of MDM Product Integrations"
- Section 15.4, "Configuring and Deploying the MDM Product Base Pack"
- Section 15.5, "Performing Postdeployment Configurations"
- Section 15.6, "Verifying Deployment"
- Section 15.7, "Undeploying the MDM Product Base Pack"

15.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Product MDM Base Pack. Enter the details of the Product MDM Base Pack screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

15.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 15–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 15–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name 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, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

15.1.2 Oracle PIM Server Details Screen

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

Table 15–2 Oracle PIM Server Details Screen Fields

Field	Description
Oracle Product Hub Host Name	This is the computer name of the Oracle Product Hub (PIM) application. For example: `rws60052rems.example.com`. To find the value, contact your administrator. Oracle Product Hub Host Name is _____
Oracle Product Hub Port	This value is the PIM application port. For example: `1617`. To find the value, contact your administrator. Oracle Product Hub Port is _____
Oracle Product Hub User Name	This is the user name for Oracle Product Hub. For example: `mfg`. To find the value, contact your administrator. Oracle Product Hub User Name is _____
Oracle Product Hub Password	This is the password for Oracle Product Hub. For example: `welcome`. To find the value, contact your administrator. Oracle Product Hub Password is _____
Workflow Business Event System Name	This is the Workflow Business Event System Name for the Oracle Product Hub. For example: `SID.EXAMPLE.COM`. To find the value, contact your administrator. Workflow Business Event System Name is _____

15.1.3 Oracle PIM Database Details Screen

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

Table 15–3 Oracle PIM database Details Screen Fields

Field	Description
Oracle Product Hub Database Host	This value is typically the computer name. For example: `rws60052rems.example.com`. To find the value, contact your database administrator. Oracle Product Hub Database Host is _____
Oracle Product Hub Database Port	This is the Database port for Oracle Product Hub (PIM). For example: `8096`. To find the value, contact your database administrator. Oracle Product Hub Database Port is _____

Table 15–3 (Cont.) Oracle PIM database Details Screen Fields

Field	Description
Oracle Product Hub Database Username	This is the database user name for Oracle Product Hub (PIM). For example: `apps`. To find the value, contact your database administrator. Oracle Product Hub Database Username is _____
Oracle Product Hub Database Password	This is the password for Oracle Product Hub (PIM). To find the value, contact your database administrator. Oracle Product Hub Database Password is _____
Oracle Product Hub Database SID	This is the Database SID for Oracle Product Hub. For example: `orcl`. To find the value, contact your database administrator. Oracle Product Hub Database SID is _____

15.2 Performing Predeployment Configurations

This section discusses predeployment configurations for the MDM Product Base Pack.

15.2.1 Configuring the Timeout Values

This section describes how to modify the JTA Transaction Value and the SyncMaxWaitTime values.

To modify JTA Transaction Value:

1. Log in to the WebLogic Server console.
2. Navigate to **soa_domain >> Services >> JTA**.
3. Change the value of the property **Timeout Seconds** to *3600*.
4. Click **Save** and activate the changes.

To modify SyncMaxWaitTime values:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
2. Expand the SOA folder and right-click **soa-infra**.
3. Select **SOA Administration, BPEL Properties**.
4. Click the **More BPEL Configuration Properties** link.
5. Change the value of **syncMaxWaitTime** to *120*.
6. Click **Apply**.

Note: These TimeOut values must be adjusted appropriately based on the environment configurations for each customer.

15.3 Overall Configuration and Deployment of MDM Product Integrations

The overall MDM Product integration consists of four component integrations: MDM Product Base Pack (OPH) and three other options: MDM Product Siebel, MDM Product E-Business Suite and MDM Product BRM. The overall MDM Product integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Product component integrations. Section 15.4 discusses configuring and deploying the Product MDM Base Pack. For detailed instructions on the other MDM Product integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Product Routing Rules following the instructions discussed in Chapter 19, "Deploying Product MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

15.4 Configuring and Deploying the MDM Product Base Pack

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

15.4.1 Configuring the MDM Product Base Pack

The screens that appear prompt you to enter the data that is required for successful configuration of the MDM Product Base Pack. Keep the completed worksheets of the MDM Product Base Pack screens ready before you launch the DCW.

To configure the MDM Product Base Pack:

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

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. Restart 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 DCW.
6. Click **Next.**
7. Select **Oracle Product Master Data Management Integration Base Pack** under **Product Master Data Management Pre-Build Integration**
8. Click **Next**.

15.4.1.1 Specify Integration Server Details

To specify integration server details:

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

15.4.1.2 Specify Oracle PIM Server Details

To specify Oracle PIM Server details:

1. Enter server information about Oracle PIM in the **Oracle PIM Server Details** screen.
2. Click **Next.**

15.4.1.3 Specify Oracle PIM Database Details

To specify Oracle PIM Database details:

1. Enter information about your Oracle PIM Database in the **Oracle PIM Database Details** screen.
2. Click **Next.**

15.4.1.4 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 15.4.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

   ---

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

15.4.2 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.

15.4.3 Deploying the MDM Product Base Pack

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 to configure the environment.
2. Run the command for your platform.

> **Note:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 15–4 Deployment Commands for the MDM Product Base Pack

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductPIM/DeploymentPlans/deployPIM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductPIM\DeploymentPlans\deployPIM.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMProductPIM_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

Integrations, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

15.5 Performing Postdeployment Configurations

This section discusses post deployment configuration for MDM Product Base Pack. This section includes:

- Section 15.5.1, "Configuring Endpoint URLs for Oracle PIM Web Services"
- Section 15.5.2, "Suppressing Auto-Retry and Preventing Multiple Error Notifications"

15.5.1 Configuring Endpoint URLs for Oracle PIM Web Services

Configure PIM web-services on a FMW application server. The details of this configuration are available in the note 888696.1 on My Oracle Support.

If you have installed the PIM web-services on the FMW where the Product MDM Base Pack is installed, you do not require any configuration changes.

If you have installed the PIM web-services on a different application server, follow the below steps to update endpoint URLs in the AIA layer after the installation of the integration.

1. Log in to Weblogic Console.
2. Under Domain Structure , click **Deployments**.
3. Select the PIM-Webservice deployed. For example, PIMWebServices-Valueset-WS. Click **Testing** tab.
4. Expand **ValueSetService** and click **?WSDL** under **Test Point**
5. Note the URL that opens in your browser. Open the AIAConfigurationProperties.xml file located in

   <AIA_INSTANCE>/AIAMetaData/config.
6. In the AIAConfigurationProperties.xml file, search the ServiceConfiguration section for the SyncSpecificationValueSetListPIMReqABCSImpl service. In this section, locate the property Routing.ValueSetService.PIM_01.EndpointURI
7. The hostname:port points to the AIA FMW server. Update the hostname:port path to the server on which PIM web services have been deployed.

   Verify that the Routing.ValueSetService.PIM_01.EndpointURI is same as the URL noted in step 5.
8. Repeat steps 1 to 7 for the following service/property-names.
   a. Deployed Webservice - PIMWebServices-ICC-WS

      Service: SyncItemCatalogCategoryPIMReqABCSImpl

      Property:Routing.ItemCatalogCategoryService.PIM_01.EndpointURI
   b. Deployed Webservice - PIMWebServices-Item-WS

      Service: QueryItemListPIMAdapter

Property: Routing.ItemService.PIM_01.EndpointURI

c. Deployed Webservice - PIMWebServices-Item-WS

Service: QueryBillOffMaterialsListPIMAdapter

Property: Routing.ItemService.PIM_01.EndpointURI

15.5.2 Suppressing Auto-Retry and Preventing Multiple Error Notifications

To suppress auto-retry and prevent multiple error notifications:

1. Set the `GlobalTxMaxRetry` property for outbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Click **More SOA Infra Advanced Configuration Properties**.
   e. Search for the `GlobalTxMaxRetry` property and set the value as *0* (zero).
2. Set the `GlobalInboundJcaRetryCount` property for inbound adapters:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **Administration, System Mbean Browser**.
   d. Search for **oracle.as.soainfra.config**, expand **<Server>**, expand **AdapterConfig**.
   e. Select **Adapter**.
   f. Search for the `GlobalInboundJcaRetryCount` property and set the value as *0* (zero).
3. Change **Audit Level** from *Development* to *Production* for soa infrastructure:
   a. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand the SOA folder, right-click **soa_infra**.
   c. Select **SOA Administration, Common Properties**.
   d. Choose *Production* from the **Audit Level** list.
   e. Click **Apply**.
4. **Stop** and **Start** the SOA and Admin Server so that your changes can take effect.

15.6 Verifying Deployment

To verify the MDM Product Base Pack deployment:

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 integration 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 integration is successfully installed.

2. Confirm that the MDM Product Base Pack components were successfully installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- QueryBillOffMaterialsListPIMAdapter
- QueryItemListPIMAdapter
- SyncItemCatalogCategoryPIMEventConsumer
- SyncItemCatalogCategoryPIMReqABCSImpl
- SyncItemListPIMEventConsumer
- SyncItemListPIMReqABCSImpl
- SyncSpecificationValueSetListPIMEventConsumer
- SyncSpecificaitonValueSetListPIMReqABCSImpl

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*.

15.6.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to **Oracle Enterprise Manager Fusion Middleware Control**.
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 15–5 Saml Opt On Client Policy Attachments for MDM Product Base Pack

Composite	Reference	Client Policy
SyncItemListPIMReqABCSImpl	PublicationService	oracle/wss_username_token_client_policy
SyncItemListPIMReqABCSImpl	GetListofTargetSystems	oracle/wss_username_token_client_policy
SyncItemCatalogCategoryPIMReqABCSImpl	ItemCatalogService	oracle/wss_username_token_client_policy
SyncItemCatalogCategoryPIMReqABCSImpl	PublicationService	oracle/wss_username_token_client_policy

For integration implementation, see *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*.

15.6.2 Validating User Credentials for PublicationService

To validate user credentials for PublicationService, perform these steps:

1. Login to EM console: **http://<hostname>:<port>/em**
2. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the requestor. For example, SyncItemCatalogCategoryPIMReqABCSImpl.
3. In the **Dashboard** tab, scroll down to **Services and References**.
4. Select **PublicationService**, and then navigate to **Policies** tab.
5. Under **Directly Attached Policies**, select **oracle/wss_username_token_client_policy**.
6. Under **Security Configuration Details**, note the current value of csf-key. For example, PIMServicesKey.
7. Navigate to **Farm_soa_domainWebLogic Domain**, right-click **soa_domain**, select **Security**--> **Credentials** and expand **<xxx>.wsm.security**.
8. Select and edit the csf-key. Update the key with appropriate username/password.

> **Note:** The user credentials must match the PH4C development manager responsibility credentials.

9. Click **OK** to save it.
10. Restart the soa_domain and re-test the flow.

15.7 Undeploying the MDM Product Base Pack

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 15–6 Undeployment Command for the Product MDM Base Pack

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductPIM/DeploymentPlans/undeployPIM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductPIM\DeploymentPlans\undeployPIM.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

16

Configuring and Deploying Product MDM: Siebel CRM

This chapter discusses how to configure and deploy Oracle Product Master Data Management Integration Option for Siebel CRM (Product MDM: Siebel CRM).

This chapter includes the following sections:

- Section 16.1, "Deployment Configuration Wizard"
- Section 16.2, "Session Pool Manager Details Screen"
- Section 16.3, "Overall Configuration and Deployment of MDM Product Integrations"
- Section 16.4, "Configuring and Deploying Product MDM: Siebel CRM"
- Section 16.5, "Postdeployment Configuration"
- Section 16.6, "Verifying Deployment"
- Section 16.7, "Undeploying Product MDM: Siebel CRM"

16.1 Deployment Configuration Wizard

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

16.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 16–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 16–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

16.1.2 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 16–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel HTTP Host name	This is a computer name of the Siebel host. For example: `sdcp1953i054.corp.siebel.com`. To find the value, contact your administrator. Siebel HTTP Host name 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 Internet Protocol	Specifies the Siebel host internet protocol. For example: http://. Siebel host internet protocol 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 _____
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: `siebel`. To find the value, contact your administrator. Siebel Enterprise Server Name is _____
Siebel Version	This is the version of the Siebel CRM application.
Siebel Language	This is the language used by the Siebel application. For example, enu. Siebel Language is _____

16.1.3 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 16–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer 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 _____

16.2 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the `java.net` application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when `ProxySettings_Enabled` is set to *TRUE*.

Table 16–4 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Caution: These fields are optional so leave the values blank. These values are required only if the Siebel server is outside of the firewall.

16.3 Overall Configuration and Deployment of MDM Product Integrations

The overall MDM Product integration consists of four component integrations: MDM Product Base Pack (OPH) and three other options: MDM Product Siebel, MDM Product E-Business Suite and MDM Product BRM. The overall MDM Product integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Product component integrations. Section 16.4 discusses configuring and deploying the Product MDM: Siebel CRM. For detailed instructions on the other MDM Product integrations, see your specific integration

chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.

2. Deploy the MDM Product Routing Rules following the instructions discussed in Chapter 19, "Deploying Product MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

16.4 Configuring and Deploying Product MDM: Siebel CRM

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

16.4.1 Configure Product MDM: Siebel CRM

The screens that appear prompt you to enter the data that is required for successful configuration of Product MDM: Siebel CRM. Keep the completed worksheets of Product MDM: Siebel CRM screens ready before you launch the DCW.

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

To configure Product MDM: Siebel CRM:

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. Restart 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 DCW.
6. Click **Next**
7. Select **Oracle Product Master Data Management Integration Option for Siebel CRM** under **Product Master Data Management Pre-Build Integration**
8. Click **Next**

16.4.1.1 Specify Integration Server Details

To specify integration server details:

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

16.4.1.2 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.**

16.4.1.3 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.**

16.4.1.4 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.**

16.4.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 16.4.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

   ---

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

16.4.2 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.

16.4.3 Deploying Product MDM: Siebel CRM

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 16–5 Deployment Commands for Product MDM: Siebel CRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductSiebel/DeploymentPlans/deploySiebel.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductSiebel\DeploymentPlans\deploySiebel.bat`

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

16.5 Postdeployment Configuration

This section includes the postdeployment configurations required for the Product MDM: Siebel CRM.

16.5.1 Configuring Session Pool Manager

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

16.5.2 Updating Product.Source.PIP Property Value

To update the Product.Source.PIP property value:

1. Edit the **AIAConfigurationProperties.xml** file located in <AIA_INSTANCE>/AIAMetaData/config.
2. Locate the `Product.Source.PIP` property and change the value as follows:

   From: `<Property name="Product.Source.PIP">O2C</Property>`

   To: `<Property name="Product.Source.PIP">MDM</Property>`

16.5.3 Updating Integration Services

In item sync with pricelists scenario, SyncItemListPIMReqABCS service waits for a response. The response from the ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl service is sent to the requester through CommunicationsPriceListResponseEBSV2. Therefore, after you deploy the Siebel CRM services, you must update the following integration services:

- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- SyncItemCompositionListSiebelCommsProvABCSImpl

To update the ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl service:

1. Edit the AIAConfigurationProperties.xml file that is located in <AIA_INSTANCE>/AIAMetaData/config.
2. Ensure that the following properties are listed in the AIAConfigurationProperties.xml file:
   - <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.Address">http://**HOST_NAME:PORT_NAME**/soa-infra/services/default/CommunicationsPriceListResponseEBSV2/CommunicationsPriceListResponseEBSV2_ep</Property>

- <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.PortType">{http://xmlns.oracle.com/EnterpriseServices/Core/PriceList/V2}CommunicationsPriceListResponse</Property>
- <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.ServiceName">{http://xmlns.oracle.com/EnterpriseServices/Core/PriceList/V2}CommunicationsPriceListResponse</Property>

To update the SyncItemCompositionListSiebelCommsProvABCSImpl service:

1. Edit the AIAConfigurationProperties.xml file that is located in <AIA_INSTANCE>/AIAMetaData/config.
2. Ensure that the following properties are listed in the AIAConfigurationProperties.xml file:
   - <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.Address">http://**HOST_NAME:PORT_NAME**/soa-infra/services/default/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>
   - <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.PortType">{http://xmlns.oracle.com/ABCSImpl/Siebel/Industry/Comms/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/V1}ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>
   - <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.ServiceName">{http://xmlns.oracle.com/ABCSImpl/Siebel/Industry/Comms/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/V1}ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>

16.6 Verifying Deployment

To verify the Product MDM: Siebel CRM deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Product MDM: Siebel CRM services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://**<server name>:<port number>**/em/).

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- SyncBillOfMaterialsListSiebelProvABCSImpl
- SyncClassificationSchemeListSiebelProvABCSImpl
- SyncItemCompositionListSiebelCommsProvABCSImpl
- SyncProductSiebelProvABCSImpl
- SyncSpecificationValueSetListSiebelProvABCSImpl

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*.

3. Verify whether Session Pool Manager is successfully installed and ensure that the Siebel server is active.

a. Log in to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).

b. Expand **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1), Default** and click **AIASessionPoolManager** on the left panel.

c. Click **Test**.

d. Enter **Operation** = `Start`.

e. Under the collapsible section titled **Security**, select **WSS Username Token** and enter the WLS admin user name and password.

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

g. Click **Test Web Service**.

You should see a successful initialization response message. For more information and troubleshooting steps, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager".

16.6.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control
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 16–6 Service Policy Attachments for Product MDM Siebel CRM

Composite	Service Policy
ReloadProcess	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIAB2BInterface	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIAErrorTaskAdministrationProcess	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
AIASessionPoolManager	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 16–7 No Authentication Service Policy Attachments for Product MDM Siebel CRM

Composite	Service Policy
SyncClassificationSchemeListSiebelProvABCSImpl	oracle/no_authentication_client_policy
SyncSpecificationValueSetListSiebelProvABCSImpl	oracle/no_authentication_client_policy
SyncBillOfMaterialsListSiebelProvABCSImpl	oracle/no_authentication_client_policy
SyncItemCompositionListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl	oracle/no_authentication_client_policy
SyncProductSiebelProvABCSImpl	oracle/no_authentication_client_policy

Table 16–8 Saml Opt On Client Policy Attachments for Product MDM Siebel CRM

Composite	Reference	Client Policy
AIAB2BInterface	X12ProcessSalesOrderReqB2BCSImplService	oracle/aia_wss10_saml_token_client_policy_OPT_ON
AIAReadJMSNotificationProcess	AIAErrorTaskAdministrationProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

For integration implementation, see *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*.

16.7 Undeploying Product MDM: Siebel CRM

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 16–9 Undeployment Command for Product MDM: Siebel CRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductSiebel/DeploymentPlans/undeploySiebel.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductSiebel\DeploymentPlans\undeploySiebel.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

17

Configuring and Deploying Product MDM: E-Business Suite

This chapter discusses how to configure and deploy Oracle Product Master Data Management Integration Option for Oracle E-Business Suite (Product MDM: EBS).

This chapter includes the following sections:

- Section 17.1, "Deployment Configuration Wizard"
- Section 17.2, "Overall Configuration and Deployment of MDM Product Integrations"
- Section 17.3, "Configuring and Deploying Product MDM: EBS"
- Section 17.4, "Verifying Deployment"
- Section 17.5, "Undeploying Product MDM: EBS"

17.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of Product MDM: EBS. Enter the details of Product MDM: EBS screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

17.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 17–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 17–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

17.1.2 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 17–2 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 values for the Oracle Product Hub integration is 11.5.10.2, 12.1.1, 12.1.2 or 12.1.3.
E-Business Suite Host Name	This value is the fully qualified computer 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 _____

17.1.3 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 17–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	This value is typically the computer 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 _____

Table 17–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
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.

17.2 Overall Configuration and Deployment of MDM Product Integrations

The overall MDM Product integration consists of four component integrations: MDM Product Base Pack (OPH) and three other options: MDM Product Siebel, MDM Product E-Business Suite and MDM Product BRM. The overall MDM Product integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Product component integrations. Section 17.3 discusses configuring and deploying the Product MDM: EBS. For detailed instructions on the other MDM Product integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Product Routing Rules following the instructions discussed in Chapter 19, "Deploying Product MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

17.3 Configuring and Deploying Product MDM: EBS

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

17.3.1 Configuring Product MDM: EBS

The screens that appear prompt you to enter the data that is required for successful configuration of Product MDM: EBS. Keep the completed worksheets of Product MDM: EBS screens ready before you launch the DCW.

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

To configure Product MDM: 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. Restart 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 DCW.
6. Click **Next**
7. Select **Oracle Product Master Data Management Integration Option for Oracle E-Business Suite** under **Product Master Data Management Pre-Build Integration**
8. Click **Next**

17.3.1.1 Specify Integration Server Details

To specify integration server details:

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

17.3.1.2 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 in the **E-Business Suite Server Details** screen.
2. Click **Next.**

17.3.1.3 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 in the **E-Business Suite Database Details** screen.
2. Click **Next.**

17.3.1.4 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 17.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

17.3.2 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.

17.3.3 Deploying Product MDM: 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: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 17–4 Deployment Commands for Product MDM: EBS

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductEbiz/DeploymentPlans/deployEbiz.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductEbiz\DeploymentPlans\deployEbiz.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMProductEbiz_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

17.4 Verifying Deployment

To verify the Product MDM: EBS deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Product MDM: EBS services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- QueryResponsibilityEbizAdapter
- SyncBillOfMaterialsListEbizAdapter
- SyncBillOfMaterialsListEbizProvABCSImpl
- SyncItemListEbizAdapter
- SyncItemListEbizProvABCSImpl
- TransformAppContextEbizService

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*.

17.4.1 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 17–5 Saml Opt On Client Policy Attachments for Product MDM EBS

Composite	Reference	Client Policy
TransformAppContextEbizService	QueryRespEbizAdapter	oracle/aia_wss10_saml_token_client_policy_OPT_ON
TransformAppContextEbizService	AIAAsyncErrorHandlingBPELProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

For integration implementation, see the *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*

17.5 Undeploying Product MDM: EBS

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 17–6 Undeployment Command for Product MDM: EBS

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductEbiz/DeploymentPlans/undeployEbiz.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductEbiz\DeploymentPlans\undeployEbiz.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

18

Configuring and Deploying Product MDM: Comms BRM

This chapter discusses how to configure and deploy the Oracle Product Master Data Management Integration Option for Oracle Communications Billing and Revenue Management (Product MDM: Comms BRM).

This chapter includes the following sections:

- Section 18.1, "Deployment Configuration Wizard"
- Section 18.2, "Overall Configuration and Deployment of MDM Product Integrations"
- Section 18.3, "Configuring and Deploying Product MDM: Comms BRM"
- Section 18.4, "Verifying Deployment"
- Section 18.5, "Undeploying the Product MDM: Comms BRM"

18.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Product MDM: Comms BRM. Enter the details of the Product MDM: Comms BRM screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

18.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 18–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 18–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

18.1.2 Oracle Communications BRM Screen

Use this screen to enter details related to your Oracle Communications BRM instance. The screen contains the following fields:

Table 18–2 Oracle Communications BRM Details Screen

Field	Description
Primary CM Host Name	This is the host name of the primary Connection Manager (CM) of the BRM server. For example: `example1.portal.com` To find this value, contact your Oracle AQ system administrator. Primary CM Host Name is _____
Primary CM Port Number	This is the port number of primary Connection Manager (CM) of the BRM server. For example: `12600`. To find this value contact your Oracle AQ database administrator System Administrator Primary CM Port Number is _____
Database Host	This is the database host name of the Oracle AQ for which the BRM DM_AQ is configured. For example: `example2.portal.com`. To find this value, contact your Oracle AQ database administrator Database Host is _____
Database Port	This is the database port number of the Oracle AQ. For example: `1521`. To find this value, contact your Oracle AQ database administrator. Database Port is _____
Oracle AQ Database SID	This is the database instance of the Oracle AQ. For example: `orcl`. To find this value, contact your Oracle AQ database administrator. Oracle AQ Database SID is _____
Oracle AQ Username	This is the database user name of the Oracle AQ. For example, PIN7820. To find this value, contact your Oracle AQ administrator. Oracle AQ Username is _____ **Note:** This value must be in uppercase (PIN7820) for the OOTB PLM flow to work.
Oracle AQ Password	This is the database password of the Oracle AQ. To find this value, contact your Oracle AQ administrator. Oracle AQ Password is _____
AQ Queue Name	This is the queue name configured for the BRM DM_AQ. For example: `AqportalUser`. To find this value, contact your Oracle AQ database administrator. AQ Queue Name is _____

18.2 Overall Configuration and Deployment of MDM Product Integrations

The overall MDM Product integration consists of four component integrations: MDM Product Base Pack (OPH) and three other options: MDM Product Siebel, MDM Product E-Business Suite and MDM Product BRM. The overall MDM Product integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Product component integrations. Section 18.3 discusses configuring and deploying the Product MDM: Comms BRM. For detailed instructions on the other MDM Product integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Product Routing Rules following the instructions discussed in Chapter 19, "Deploying Product MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

18.3 Configuring and Deploying Product MDM: Comms BRM

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

18.3.1 Configuring Product MDM: Comms BRM

The screens that appear prompt you to enter the data that is required for successful configuration of the Product MDM: Comms BRM option. Keep the completed worksheets of the Product MDM: Comms BRM option screens ready before you launch the DCW.

To configure the Product MDM: Comms BRM:

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

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. Restart 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 DCW.
6. Click **Next.**
7. Select **Oracle Product Master Data Management Integration Option for BRM** under **Product Master Data Management Pre-Build Integration**
8. Click **Next**.

18.3.1.1 Specify Integration Server Details

To specify integration server details:

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

18.3.1.2 Specify Oracle Communications BRM Details

To specify Oracle Communications BRM details:

1. Enter Oracle Communications BRM information in the **Oracle Communications BRM** screen.
2. Click **Next.**

18.3.1.3 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 18.3.2, "Configuring using the Response File". Click **Save Response File** and save the response file with the name and location of your choice.

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

   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 displayed in **Configuration Progress** screen.

3. When the configuration process finishes without errors, click **Next**.
4. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

18.3.2 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.

18.3.3 Deploying the Product MDM: Comms BRM

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 18–3 Deployment Commands for the Product MDM: Comms BRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductBRM/DeploymentPlans/deployMDMProductBRM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductBRM\DeploymentPlans\deployMDMProductBRM.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMProductBRMDP_Deployments_ YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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

Integrations, most often, also require deployment of artifact types that are beyond what is supported by the Project Lifecycle Workbench and AIA Harvester. For instance, you may want to deploy 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

18.4 Verifying Deployment

To verify the Product MDM: Comms BRM deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Product MDM: Comms BRM services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control: (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - SyncItemListBRMProvABCSImpl
   - SyncPriceListListBRMProvABCSImpl

For more information about the DVMs to be verified, see the *Oracle Application Integration Architecture Product Master Data Management Integration Pack Implementation Guide*

18.5 Undeploying the Product MDM: Comms BRM

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 18–4 Undeployment Command for the Product MDM: Comms BRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductBRM/DeploymentPlans/undeployMDMProductBRM.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductBRM\DeploymentPlans\undeployMDMProductBRM.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

19

Deploying Product MDM: Routing Rules

This chapter discusses how to configure and deploy Oracle Product Master Data Management: Routing Rules (Product MDM: Routing Rules).

This chapter includes the following sections:

- Section 19.1, "Overall Configuration and Deployment of MDM Product Integrations"
- Section 19.2, "Deploying Product MDM: Routing Rules"
- Section 19.3, "Verifying Deployment"
- Section 19.4, "Undeploying Product MDM: Routing Rules"

19.1 Overall Configuration and Deployment of MDM Product Integrations

The overall MDM Product integration consists of four component integrations: MDM Product Base Pack (OPH) and three other options: MDM Product Siebel, MDM Product E-Business Suite and MDM Product BRM. The overall MDM Customer integration can be configured and deployed by selecting any integration or integration combination. The configuration and deployment process consists of the following steps:

1. Configure and deploy the MDM Product component integrations. For detailed instructions on the MDM Product integrations, see your specific integration chapters in Part II, "Configuring and Deploying Pre-Built Integrations" of this guide.
2. Deploy the MDM Product Routing Rules following the instructions discussed in Section 19.2, "Deploying Product MDM: Routing Rules". Routing Rules wire the integration services, depending on the integrations deployed.

19.2 Deploying Product MDM: Routing Rules

To deploy the routing rules 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.

Table 19–1 Deployment Commands for Product MDM: Routing Rules

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProduct/DeploymentPlans/deployEBS.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProduct\DeploymentPlans\deployEBS.bat`

3. Review the log file in the location specified in the command or at the default location <AIA_Instance>/logs/MDMProductDP_Deployments_YYYY-MM-DD_HH-MI-SS.log to verify successful deployment of the integration.

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, and 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 integration development teams 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 must modify and add new non-native artifacts outside AIA Lifecycle Workbench.

For more information about deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts."

19.3 Verifying Deployment

To verify the Product MDM: Routing Rules deployment:

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 integration 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 integration is successfully installed.
2. Confirm that the Product MDM: Routing services were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name.

      For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- SpecificationValueSetEBS
- SpecificationValueSetResponseEBS
- ClassificationSchemeEBS
- ClassificationSchemeResponseEBS
- ItemEBSV2
- ItemResponseEBSV2
- PriceListResponseEBSV2
- CommunicationsPriceListEBSV2
- CommunicationsPriceListResponseEBSV2
- PriceListEBSV2
- CommunicationsItemCompositionEBSV1
- CommunicationsItemCompositionResponseEBSV1
- BillOfMaterialsEBS
- BillOfMaterialsResponseEBS
- Comms2CorePriceListBridgeService
- Core2CommsPriceListBridgeService

19.4 Undeploying Product MDM: Routing Rules

To undeploy the routing rules 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 19–2 Undeployment Command for Customer MDM: Routing Rules

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	sh $AIA_HOME/pips/MDMProduct/DeploymentPlans/undeployEBS.sh
Microsoft Windows (32-bit)	%AIA_HOME%\pips\MDMProduct\DeploymentPlans\undeployEBS.bat

3. Restart the SOA server.
4. Uninstall the integration following the instructions in the Chapter 37, "Uninstalling Oracle AIA".

20

Configuring and Deploying Product MDM: Design Studio

This chapter discusses how to configure and deploy the Oracle Product Master Data Management Integration Option for Oracle Communications for Design Studio (Product MDM: Design Studio).

This chapter includes the following sections:

- Section 20.1, "Performing Pre-deployment Configurations"
- Section 20.2, "Configure Product MDM: Design Studio"
- Section 20.3, "Deploying Product MDM: Design Studio"
- Section 20.4, "Performing Post-deployment Configurations"
- Section 20.5, "Verifying Deployment"
- Section 20.6, "Un-deploying Product MDM: Design Studio"
- Section 20.7, "Verifying Un-installation"

20.1 Performing Pre-deployment Configurations

You must make sure to install the Oracle Product Master Data Management Integration Base Pack prior to installing the Product MDM Integration Option for Design Studio Pre-built Integration pack. Also, the Product MDM: Design Studio integration option needs the Communications Order to Cash PIP for the requester that gets invoked from Design Studio. For more information , see Chapter 8, "Configuring and Deploying the Comms Order to Cash: SBL CRM and OSM Pre-Built Integration".

The Product MDM Base Pack can also be installed along with the Product MDM Integration Option for Design Studio Pre-built Integration pack.

20.2 Configure Product MDM: Design Studio

To configure Product MDM: Design Studio:

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 installation 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 Deployment Configuration Wizard (DCW)**.

3. Click **Next**.
4. Select **Oracle Product Master Data Management Integration Base Pack** under **Product Master Data Management Pre-Built Integration.**

> **Note:** The Product MDM Base Pack must be installed prior to installing the Product MDM: Design Studio pre-built integration pack or installed along with this installation.

5. Select **Oracle Product Master Data Management Integration Option for Design Studio** under **Product Master Data Management Pre-Built Integration.**
6. Click **Next**.
7. Enter information related to your integration server in the **Integration Server Details** screen.
8. Click **Next**.

> **Note:** If you have selected the MDM Product Base Pack install option along with this installation, then see Chapter 9, "Configuring and Deploying Customer MDM Base Pack"

9. Click **Configure** to accept this configuration and begin the installation.
    1. The system displays progress of configuration in the **Configuration Progress** screen.
    2. 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.
10. When the configuration process finishes without errors, click **Next**.
11. When the AIA DCW displays the **Configuration Complete** screen, click **Finish** to close the DCW.

20.2.1 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 Deploying Product MDM: Design Studio

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:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

Table 20–1 Deployment Commands for Product MDM: Siebel CRM

Platform	Deployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductDS/DeploymentPlans/deployDS.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductDS\DeploymentPlans\deployDS.bat`

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

20.4 Performing Post-deployment Configurations

To retrieve product data from the Product Master, users can either select Siebel or Product Hub as their edge application. By default, this integration provides an out-of-the-box (OOTB) integration to Siebel.

The process to query ICCs (or product classes in Siebel CRM) depends on the AIAConfigurationProperties.xml file settings set by the users. For example, to retrieve ICCs from Product Hub, users must modify the settings in the

AIAConfigurationProperties.xml file to set the Routing.EdgeApplications property of composite, QueryProductClassAndAttributesSCECommsReqABCSImpl to System ID of OPH (in the AIAConfigurationProperties.xml file, change <Property name="Routing.EdgeApplications">SEBL_01</Property> to <Property name="Routing.EdgeApplications">PIM_01</Property>) and update it to the MDS repository.

You have to setup and configure e-mail notifications in OPH. For more information about how to setup e-mail notifications, see knowledge base article, MOS Doc ID 1491286.1, "Design Studio integration with Product Hub" in My Oracle Support.

In an OOTB configuration, the Product MDM: Design Studio deployment assumes that the OPH web services are installed in the same machine as the AIA application server. However, if you have not selected this configuration, then post deployment, the AIA configuration properties must be updated with the URL for the OPH web services. The Oracle Metadata Services (MDS) database must be updated.

20.5 Verifying Deployment

To verify Product MDM: Design Studio deployment:

Confirm that the Product MDM: Design Studio services were installed:

- QueryClassificationListPIMCommsProvABCSImpl
- QuerySpecificationValueSetListPIMCommsProvABCSImpl

20.6 Un-deploying Product MDM: Design Studio

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 20–2 Undeployment Command for Product MDM: Siebel CRM

Platform	Undeployment Command
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit). HP-UX 11i (64 bit)	`sh $AIA_HOME/pips/MDMProductDS/DeploymentPlans/undeployDS.sh`
Microsoft Windows (32-bit)	`%AIA_HOME%\pips\MDMProductDS\DeploymentPlans\undeployDS.bat`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

20.7 Verifying Un-installation

To verify Product MDM: Design Studio un-installation:

Confirm that the Product MDM: Design Studio services were un-installed:

- QueryClassificationListPIMCommsProvABCSImpl
- QuerySpecificationValueSetListPIMCommsProvABCSImpl

21

Configuring and Deploying Design to Release: Agile - EBS

This chapter discusses how to configure and deploy the Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release (Design to Release: Agile - EBS Pre-Built Integration).

This chapter includes the following sections

- Section 21.1, "Deployment Configuration Wizard"
- Section 21.2, "Performing Predeployment Configurations"
- Section 21.3, "Configuring and Deploying Design to Release: Agile - EBS Pre-Built Integration"
- Section 21.4, "Performing Postdeployment Configurations"
- Section 21.5, "Verifying Deployment"
- Section 21.6, "Undeploying the Design to Release: Agile - EBS Pre-Built Integration"

21.1 Deployment Configuration Wizard

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

21.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 21–1 Integration Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates with managed servers for the domain. Select the managed server from the list. If you are deploying the integration 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.

21.1.2 Agile PLM Details Screen

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

Table 21–2 Agile PLM Details Screen fields

Field	Description
Agile PLM Host	Specifies the system 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 user name. 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. **Note:** This drop down list may contain older versions of Agile PLM which are not supported by the PIP. To ensure that you have selected the right version of Agile PLM, see Chapter 2.18, "Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release."

21.1.3 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 21–3 Oracle E-Business Suite Server Details Screen fields

Field	Description
E-Business Suite Host Name	Specifies the system 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 integration.
E-Business Suite Version	This is a drop down list of Oracle E-Business Suite Application versions. **Note:** This drop down list may contain older versions of Oracle E-Business Suite which are not supported by the PIP. To ensure that you have selected the right version of Oracle E-Business Suite A, see Chapter 2.18, "Agile Product Lifecycle Management Integration Pack for Oracle E-Business Suite: Design to Release."
E-Business Suite Protocol for web services	This is a drop down list with options http or https for the protocols used to invoke webservices on E-Business Suite. To find this value, contact your administrator.

21.1.4 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 21–4 Oracle E-Business Suite Database Details Screen fields

Field	Description
E-Business Suite Database Host	Specifies the system 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.

21.1.5 Design to Release: Agile - EBS Configurations Screen

Use this screen to enter details related to your new schema to be created for the PIP queue tables and Oracle EBS to Agile PLM Initial Load instance. The screen contains the following fields:

Note: The PIP schema details listed in Table 21–5 applies only for fresh install of AIA 11.5. These details will not be considered for other releases and upgrade to AIA 11.5.

Table 21–5 PIP Schema Details

Field	Description
PIP Schema Name	Enter the name of the new schema to be created for the PIP queue tables. Default Value is plmpip.
PIP Schema password	Create a password for the schema.
Reconfirm PIP Schema password	Confirm the new password that you created.

Table 21–6 Item Initial Load Data Locations

Field	Description
Location to store XML files containing item data from E-Business Suite	This is the location where AIA stores the XML files that contain Initial Load Item data from Oracle E-Business Suite.
Location to pick up Item Data XML files for loading into Agile PLM	This is the location from where AIA picks up the Initial Load Item data XML files for loading into Agile PLM. This location option enables you to review and improve the data before loading into Agile.
Location to store the failed Item Data XML files	This is the location of the Item Data XML files that failed to load into Agile.
Location to store the successful Item Data XML files	This is the location of the Item Data XML files that were successfully loaded into Agile.

21.2 Performing Predeployment Configurations

Configure https enabled Ebiz (Optional)

1. Obtain the Ebiz environment certificate from the following path: $ORACLE_HOME/appsutil/wallet
2. Import this Ebiz certificate to the WebLogic server. To import this Ebiz certificate, follow these steps:
    1. Add the keytool to classpath as *export CLASSPATH=/slot/ems3486/oracle/Middleware/jrockit-jdk1.6.0_37-R28.2.5-4.1.0/bin:$CLASSPATH*
    2. Copy the Ebiz certificate to FMW server.
    3. Import the certificate to WebLogic keystore as

    keytool -import -noprompt -trustcacerts -alias rws3221070 -file /slot/ems3486/oracle/EBSCertificate/ca.cer -keystore /slot/ems3486/oracle/Middleware/jrockit-jdk1.6.0_37-R28.2.5-4.1.0/jre/lib/security/cacerts -storepass changeit

For example, *keytool -import -noprompt -trustcacerts -alias <name> -file <path of fmw where you copied ebiz certificate> -keystore $MW_HOME/jrockit-jdk1.6.0_37-R28.2.5-4.1.0/jre/lib/security/cacerts -storepass <wls store password>*

4. Verify this by listing the certificates in keystore as *keytool -list -keystore /slot/ems3486/oracle/Middleware/jrockit-jdk1.6.0_37-R28.2.5-4.1.0/jre/lib/security/cacerts*

Modify transaction values

You must modify transaction properties to complete the integration deployment. To modify transaction values:

1. Log in 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 Oracle Enterprise Manager Fusion Middleware Control.
   b. Expand SOA folder, right click **soa_infra**.
   c. Select **SOA Administration**, **BPEL Properties**.
   d. Click link **More BPEL Configuration Properties**.
   e. Change the value of **SyncMaxWaitTime** from *45* to *120*.
   f. Click **Apply**.

21.3 Configuring and Deploying Design to Release: Agile - EBS Pre-Built Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

21.3.1 Configuring the Design to Release: Agile - EBS Pre-Built Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Design to Release: Agile - EBS Pre-Built Integration. Keep the completed worksheet of the Design to Release: Agile - EBS Pre-Built Integration screens ready before you launch the DCW.

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 Pre-Built 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. In the **setDomainEnv.sh** (or .bat) file, replace the following line:

   WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**"

   with the following changes

WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".

> **Note:** The values specified are baseline values. You can modify the values to improve performance. Your server class machines must have 8GB RAM or more of available space for the above memory settings to be valid.

3. Restart 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 **DCW**.
6. Click **Next.**
7. Select **Design to Release: Agile - EBS** under **Product Lifecycle Management Pre-Built Integrations**.
8. Click **Next**.

21.3.1.1 Specify Integration Server Details

To specify integration server details:

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

21.3.1.2 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**.

21.3.1.3 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**.

21.3.1.4 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**.

21.3.1.5 Specify Design to Release: Agile - EBS Configurations Screen

To specify Design to Release: Agile - EBS Configurations Screen Details

1. Enter information about your **PIP Schema Details** from Design to Release: Agile - EBS Configurations installation in the **Design to Release: Agile - EBS Configurations**screen.
2. Enter information about your I**tem Initial Load Data Locations** from Design to Release: Agile - EBS Configurations installation in the **Design to Release: Agile - EBS Configurations** screen.
3. Click **Next.**

21.3.1.6 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 21.3.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

21.3.2 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.

21.3.3 Prerequisite for E-Business Suite version 12.2.0 or later

To install Design to Release: Agile - EBS Pre-Built Integration PIP 11.3 with E-Business Suite version 12.2.0 or later, you must perform the following steps before installing the PIP:

1. Navigate to $AIA_INSTANCE/config/AIAInstallProperties.xml
2. Add the following property for the endpoint URI under properties/participatingapplications/ebiz
   - *generateitemnumberservicewsdlurl - WSDL URL* for the Generate Item Number service on the EBS ISG server. For example, http://rws3220107.example.com:16043/soa-infra/services/default/XZ1ST222_BSO_inv_ebi_item_GenerateItemNumberService/GenerateItemNumberService_Service?wsdl
   - *generateitemnumberserviceendpointuri* Endpoint URI of the Genenerate Item Number service on the the EBS ISG server. For example, http://rws3220107.example.com:16043/soa-infra/services/default/XZ1ST222_BSO_inv_ebi_item_GenerateItemNumberService/GenerateItemNumberService_Service

21.3.4 Deploying the Design to Release: Agile - EBS Pre-Built Integration

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.

Table 21–7 Deployment Command for the Design to Release: Agile - EBS Pre-Built Integration

Platform	Deployment Command
Linux	`sh $AIA_HOME/pips/AgileToEbiz/DeploymentPlans/AgileToEbizDP.sh`
Solaris SPARC	
HP-UX	
IBM AIX Based Systems	
Microsoft Windows	`%AIA_HOME%\pips\AgileToEbiz\DeploymentPlans\AgileToEbizDP.bat`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

21.4 Performing Postdeployment Configurations

This sections describes the postdeployment tasks you must perform after configuring the Design to Release: Agile - EBS Pre-Built Integration. This section includes the following topics:

- Section 21.4.1, "Cluster Installation"
- Section 21.4.2, "Enabling Security"
- Section 21.4.3, "Configuring Initial Load"
- Section 21.4.4, "Enabling the NPR & SYNC Flows"

21.4.1 Cluster Installation

To install the Design to Release: Agile - EBS PIP in a cluster, follow these steps:

1. Open the *<WebTier_HOME>/instances/<instances_name>/config/OHS/ohs1/mod_wl_ohs.conf* file.
2. Add the following code:

Example 21–1 Queue

```
<Location /queue>
 SetHandler weblogic-handler
 WebLogicCluster <<PrimaryHost>>:<PrimaryHost
 Port>>,<<SecondaryHost>>:<SecondaryHost Port>>
 WLLogFile /tmp/web_log.log
 </Location>
```

Example 21–2 EBIBOMConfigurator

```
<Location /EBIBOMConfigurator/ebibomconfigreturnservlet >
 SetHandler weblogic-handler
 WebLogicCluster
 <<PrimaryHost>>:<PrimaryHostPort>>,<<SecondaryHost>>:<SecondaryHost Port>>
 WLLogFile /tmp/web_log.log
 </Location>
```

21.4.2 Enabling Security

After configuration of the EBS is complete, you must enable security in the three concurrent programs of the Design to Release: Agile - EBS Pre-Built Integration. To complete this task, perform the following steps:

1. Set **EBS Integration: SOA SERVER USER** system profile to Weblogic user.
2. Set the SOA Password using the SQL script: `inveipwd.sql`.

   The file is located in **EBS APPLICATION_TOP** in the following folder: *APPL_TOP/inv/12.0.0/patch/115/sql/inveipwd.sql*.

   You are prompted to enter the password for the SOA user to be encoded and stored. (This is used by Business Event to invoke RequestorABCS.) The password is stored in **FND_VAULT** under the module **EBI** and **Vault Key INV_EBI_SOA_PASSWORD**.

21.4.3 Configuring Initial Load

To configure the Agile Initial Load for the Design to Release: Agile - EBS Pre-Built Integration, perform the following steps:

> **Note:** These steps are required to use the Initial Load for the Design to Release: Agile - EBS Pre-Built Integration.

1. Apply patch 8313714:R12.EGO.C for EBS R12.1.1 or EBS R12.1.2
2. Login to the EBS database
3. Locate and open the EGO_EBI_ITEM_LOAD package
4. Perform the following changes:
   a. In the GENERATE_EVENTS procedure, replace the following query:

```
INSERT INTO EGO_EBI_ITEM_LOAD_LOG (INVENTORY_ITEM_ID,ORGANIZATION_ID,
EVENT_ID)
SELECT INVENTORY_ITEM_ID, ORGANIZATION_ID, NULL
FROM MTL_SYSTEM_ITEMS_B
WHERE ORGANIZATION_ID = p_organization_id
AND bom_item_type in (1, 2, 4)
AND customer_order_flag = 'Y'
AND customer_order_enabled_flag = 'Y';
```

   With the following query:

```
INSERT INTO EGO_EBI_ITEM_LOAD_LOG (INVENTORY_ITEM_ID,ORGANIZATION_ID,
EVENT_ID)
SELECT INVENTORY_ITEM_ID, ORGANIZATION_ID, NULL
FROM MTL_SYSTEM_ITEMS_B
WHERE ORGANIZATION_ID = p_organization_id;
```

   b. In the REGENERATE_FAILED_EVENT procedure, replace the following query:

```
DELETE FROM  EGO_EBI_ITEM_LOAD_LOG
WHERE ORGANIZATION_ID = p_organization_id AND
EVENT_ID = p_event_id AND
INVENTORY_ITEM_ID NOT IN(
SELECT INVENTORY_ITEM_ID
FROM MTL_SYSTEM_ITEMS_B
WHERE ORGANIZATION_ID = p_organization_id
AND bom_item_type in (1, 2, 4)
AND customer_order_flag = 'Y'
AND customer_order_enabled_flag = 'Y');
```

With the following query:

```
DELETE FROM  EGO_EBI_ITEM_LOAD_LOG
WHERE ORGANIZATION_ID = p_organization_id AND
EVENT_ID = p_event_id AND
INVENTORY_ITEM_ID NOT IN(
SELECT INVENTORY_ITEM_ID
FROM MTL_SYSTEM_ITEMS_B
WHERE ORGANIZATION_ID = p_organization_id);
```

5. Recompile the EGO_EBI_ITEM_LOAD package

21.4.4 Enabling the NPR & SYNC Flows

To enable the NPR & SYNC flows in the Design to Release: Agile - EBS Pre-Built Integration, you must update the config.properties file located in *NPRpx*.jar:

Note: Before performing any changes, back up the *NPRpx*.jar file.

1. In the Agile server, navigate to <AgileHome>/integration/sdk/extensions.
2. Unzip *NPRpx*.jar.
3. Open config.properties file.
4. Update *Host* and *Port* values for the following variables:
   a. WS_LOCATION_ CRETEITEMFLOW=http://<<FMWHost>>:<<ManagedPort>>/soa-infra/services/default/SyncItemListAgileReqABCS/client
   b. WS_LOCATION_ SYNCITEMFLOW=http://<<FMWHost>>:<<ManagedPort>>/soa-infra/services/default/SyncItemListAgileReqABCS/client
5. Check that the value for **NPR_PX_TIMEOUT** is *90000000*. This is the recommended value.
6. Update the SOA_LOGIN_USERNAME and SOA_LOGIN_PASSWORD values with your username and password.

   The password must be encrypted. To encrypt the password:

   a. In the Agile Server, navigate to <AgileHome>/agileDomain/bin
   b. Run the encryption script `"./encryptpwd.sh <PasswordToBeEncrypted>"`
7. Save your changes and rezip *NPRpx*.jar.
8. Restart the Agile Server.

21.5 Verifying Deployment

To verify the Design to Release: Agile - EBS Pre-Built Integration deployment:

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 Design to Release: Agile - EBS / PIM Pre-Built Integration queue was installed.
   a. Navigate to the PLM integration 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 Pre-Built Integration processes were installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

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

Table 21–8 Design to Release: Agile - EBS Pre-Built Integration ESB Services

Mediator Services	12.1.x or 12.2.x with PIM + 9.3.x where x>=1 with VM	12.1.x or 12.2.x with PIM + 9.3.x where x>=1	12.1.x or 12.2.x + 9.3.x where x>=1 with VM	12.1.x or 12.2.x + 9.3.x where x>=1
EBS				
BillOfMaterialsConfigurationEBS	x	x	x	x
ItemEBSV2				
EngineeringChangeOrderEBS				
EngineeringChangeOrderResponseEBS				
ItemBalanceEBS				
ItemBalanceResponseEBS				
ItemResponseEBSV2				
Adapter Services				
UpdateEngineeringChangeOrderStatusEbizEventConsumer				

Table 21–8 (Cont.) Design to Release: Agile - EBS Pre-Built Integration ESB Services

Mediator Services	12.1.x or 12.2.x with PIM + 9.3.x where x>=1 with VM	12.1.x or 12.2.x with PIM + 9.3.x where x>=1	12.1.x or 12.2.x + 9.3.x where x>=1 with VM	12.1.x or 12.2.x + 9.3.x where x>=1
CreateEngineeringChangeOrderListEbizAdapter				
GetConfiguratorURLEbizAdapter				
ProcessEbizItemBatchLoadEventConsumer				
QueryEngineeringChangeOrderListEbizAdapter				
QueryItemBalanceListEbizAdapter				
QueryItemListEbizAdapter				
QueryResponsibilityEbizAdapter				
SyncBillOfMaterialsConfigurationEbizJMSConsumer		x		x
SyncBillOfMaterialsConfigurationEbizJMSProducer		x		x
SyncItemListEbizAdapter				
ValidateEngineeringChangeOrderListEbizAdapter				
ACSAXMLJMSConsumer				
Utility Service				
CreateQueueControlService				
QueueProcessorService				

Also check for the items in Table 21–9.

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

Table 21–9 Design to Release: Agile - EBS Pre-Built Integration processes

BPEL Processes	12.1.x or 12.2.x with PIM + 9.3.x where x>=1 with VM	12.1.x or 12.2.x with PIM + 9.3.x where x>=1	12.1.x or 12.2.x + 9.3.x where x>=1 with VM	12.1.x or 12.2.x + 9.3.x where x>=1
CreateEngineeringChangeOrderListEbizProvABCSImpl				
CreateQueueService				
GenerateItemNumberService			x	x
GetConfiguratorURLEbizProvABCSImpl		x		x
GetConfiguratorURLAgileReqABCSImpl		x		x
ProcessItemListInitialLoadAgileABF				
ProcessItemListInitialLoadEbizABF				
ProcessEngineeringChangeOrderAgileReqABCSImpl				
QueueProcessorServiceImpl				
SyncBillOfMaterialsConfigurationAgileProvABCSImpl		x		x
SyncBillOfMaterialsConfigurationListEbizReqABCSImpl		x		x
SyncItemListAgileReqABCS				
SyncItemListAgileReqABCSImpl				

Table 21–9 (Cont.) Design to Release: Agile - EBS Pre-Built Integration processes

BPEL Processes	12.1.x or 12.2.x with PIM + 9.3.x where x>=1 with VM	12.1.x or 12.2.x with PIM + 9.3.x where x>=1	12.1.x or 12.2.x + 9.3.x where x>=1 with VM	12.1.x or 12.2.x + 9.3.x where x>=1
SyncItemListEbizProvABCSImpl				
UpdateEngineeringChangeOrderListAgileProvABCSImpl				
UpdateEngineeringChangeOrderListEbizReqABCSImpl				
UpdateItemBalanceListAgileProvABCSImpl				
UpdateItemBalanceListEbizReqABCSImpl				
UpdateItemListAgileProvABCSImpl				
UpdateItemListEbizReqABCSImpl				
ValidateEngineeringChangeOrderListAgileReqABCSImpl				
ValidateEngineeringChangeOrderListEbizProvABCSImpl				
TransformAppContextEbizService				
UpdateEngineeringChangeOrderListEbizReqABCS				
UpdateItemBalanceListEbizReqABCS				
UpdateItemListEbizReqABCS				

Note: IF EBS is down, the GenerateItemNumberService does not deploy. An error is generated for the deployment of this service.

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 21–10 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	9.3.2 (Out of the Box) This can be edited to appropriate version of Agile PLM.

Table 21–11 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: 12.1.x, 12.1.x with PIM)

21.5.1 Validating Security Policies

For information on validating security policies for the Design to Release: Agile - EBS Pre-Built Integration, see *Oracle Application Integration Architecture Design to Release: Agile - EBS Implementation Guide*, "Security Policies Validation".

For more information about security validation, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Working with Security."

For integration implementation, see *Oracle Application Integration Architecture Design to Release: Agile - EBS Implementation Guide*.

21.6 Undeploying the Design to Release: Agile - EBS Pre-Built Integration

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 21–12 Un-deployment Command for the Design to Release: Agile - EBS Pre-Built Integration

Platform	Un-deployment 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/AgileToEbizConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>/pips/AgileToEbiz/DeploymentPlans/AgileToEbizSupplementaryUndeployDP.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\AgileToEbizConditionalPolicyUndeploy.xml -DSupplementaryDeploymentPlan=<AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizSupplementaryUndeployDP.xml -l <AIA_HOME>\pips\AgileToEbiz\DeploymentPlans\AgileToEbizUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

22

Configuring and Deploying Design to Release: Agile - SAP

This chapter discusses how to configure and deploy the Agile Product Lifecycle Management Integration Pack for SAP: Design to Release (Design to Release: Agile - SAP integration).

This chapter includes the following sections:

- Section 22.1, "Deployment Configuration Wizard"
- Section 22.2, "Configuring and Deploying the Design to Release: Agile - SAP Integration"
- Section 22.3, "Performing Postdeployment Configurations"
- Section 22.4, "Verifying Deployment"
- Section 22.5, "Validating Security Policies"
- Section 22.6, "Undeploying the Design to Release: Agile - SAP Integration"

22.1 Deployment Configuration Wizard

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

22.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 22–1 Integration 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 computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 22–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The Admin Password is _____
Managed Server	After you enter the Admin Host name, Admin Port, Domain Name, Admin user name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

22.1.2 Agile PLM Details Screen

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

Table 22–2 Agile PLM Details Screen Fields

Field	Description
Agile PLM Host	Specifies the system name. Example: example1.corp.oracle.com. Agile PLM Host name is _____
Agile PLM Port	This is the http port. This value depends on the webserver 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 user name. 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. **Note:** This drop down list may contain older versions of Agile PLM which are not supported by the PIP. To ensure that you have selected the right version of Agile PLM, see Chapter 2.19, "Agile Product Lifecycle Management Integration Pack for SAP."

22.1.3 Specify SAP Application Server Details

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

Table 22–3 SAP Application Server Details

Field	Description
SAP Application Server Name	Specifies the fully qualified system name of the SAP Application Server. Example: example1.corp.oracle.com The SAP application server name is ----------
System Number	This value specifies the system number of the SAP client. The System Number is ----------
System ID	This value specifies the system Id of the SAP server. The System ID is ----------
Client ID	This is the SAP client number, which is used for integration. The Client ID is ----------
User Name	Specifies the authorized name used to logon to the SAP system. The User Name is ----------
Password	Authorized password to logon to SAP system. The Password is ----------
Language	Logon language. This value is the Language pack installed on the SAP server. The Language is ----------
Code Page	Code page is used for double byte characters. If your file content has non-english characters then you must specify the Code page. The Code Page is ----------
Gateway Service Name	The SAP Gateway carries out Communication Programming Interface Communication services. These services enable SAP Systems and external programs to communicate with one another. The SAP Gateway Service name is ----------
Connection Pool Size	The maximum number of connections which are maintained in the SAP system. The Connection Pool size is ----------
Gateway host	Specifies the name of the host where the SAP gateway service identified in the sap-gateway-service. The Gateway host is ----------
Program ID	This value is the Program ID of the SAP server. The Program ID is----------
Sender Port	Specifies the name of the port used to send the data from other system through IDOCs. The Sender Port is ----------
Receiver Port	Specifies the name of the port used to receive the data from other system through IDOCs. The Received Port is ----------
Message Server Name	This is the SAP message server name, if used.

22.1.4 Design to Release : Agile -SAP Configurations

Note: The PIP schema details listed in Table 22–4 applies only for fresh install of AIA 11.5. These details will not be considered for other releases and upgrade to AIA 11.5.

Table 22–4 PIP Schema Details

Field	Description
PIP Schema Name	Enter the name of the new schema to be created for the PIP queue tables. Default Value is plmpip.
PIP Schema password	Create a password for the schema.
Confirm PIP Schema password	Confirm the new password that you created.

22.1.5 SAP Adapter Installation and Configuration

The following tasks must be performed to install the SAP Adapter:

1. Install Java Development Kit (JDK) version 160_22. Oracle Application Adapter for SAP R/3 is certified with JDK version 160_22.
2. JDK is installed with Weblogic server installation. Go to Middleware_ home\jdk160_22\jre
3. Ensure that the JDK is added to your system PATH or on a pre-defined path.
4. Access `https://edelivery.oracle.com` and sign in with the valid logon credentials.
5. Navigate to select the corresponding Product Pack (Oracle Fusion Middleware) & Platform (Windows or Linux) to download the application adapters.
6. At the command line prompt, run the command for your platform:

Table 22–5 SAP Adapter Launch Commands

Platform	To launch the SAP Adapter Installer:
Linux Solaris SPARC HP-UX IBM AIX Based Systems	-is:javahome Path of the JDK Installer iwora11g.application-adapters.linux.bin or iwora11g.application-adapters.solaris.bin
Microsoft Windows	-is:javahome Path of the JDK Installer iwora11g.application-adapters.win32.exe

The installation program uses the JDK version that is available in your system PATH or on a pre-defined path.

7. Click **Next**
8. The **Oracle SOA Integration Home** screen is displayed to enter the path where Oracle SOA suite is installed on your system. For example: C:\oracle_soa
9. The installation program creates a subdirectory called **Application Adapters** under the Oracle SOA home where all the files for Oracle Application Adapter for SAP R/3 are installed.

   After the installation is complete, an I**nstall Confirmation** screen is displayed.

   Click **Finish**
10. The Oracle Application Adapter for SAP R/3 is now installed on your system in the following directory:

    \Middleware_home\Oracle_SOA1\soa\thirdparty\ApplicationAdapters.
11. Navigate to \Middleware_home\Oracle_ SOA1\soa\thirdparty\ApplicationAdapters and apply patch 13509998 using the **opatch apply** command.

22.1.6 Postinstallation Considerations

This section includes postinstallation considerations for the Oracle Application Adapter for SAP R/3, which include:

- Section 22.1.6.1, "Verifying Directory Structure"
- Section 22.1.6.2, "Copying the Library Files"

22.1.6.1 Verifying Directory Structure

The Oracle Application Adapter for SAP R/3 is installed into the Application Adapters subdirectory of your Oracle WebLogic Integration home directory.

Table 22–6 shows the directory structure.

Table 22–6 Application Adapters Directory Structure

Directory Structure	Description
_uninst	Contains the uninstallation files
config	Contains the J2CA_SampleConfig subdirectory and XML-file-based repository for OracleWLS Adapter J2CA
etc	Contains the ibse.ear, iwafjca.ear, iwafjca.rar, and iwse.ora files
ibse.war	Contains the BSE application and repository configuration
iwafjca.rar	Contains the J2CA Installation Verification Program (IVP
lib	Contains library files
tools	Contains the Application Explorer graphical user interface

22.1.6.2 Copying the Library Files

Oracle Application Adapter for SAP R/3 requires you to copy library files to specific directories.

1. Copy the library files which are given in the table below for the adapter into this directory:

   Middleware_home/Oracle_SOA1/soa/thirdparty/ApplicationAdapters/lib.

2. Copy the library files which are given in the table below into the lib directory for your domain.

   For example:

   Middleware_home/user_projects/domains/domain_name/lib

3. Use any archive tool and open the archive containing the SAP JCo sapjco.jar, and extract the run time files.

   The file names can vary by operating system, but typically are contained in the root of the archive.

   Note: All operating systems: You must place the sapjco.jar file in the Middleware_home\Oracle_SOA1\soa\thirdparty\ApplicationAdapters\lib directory. Then, you must add the sapjco.jar to the Oracle WebLogic Server classpath.

   On Windows, **librfc32.dll** should be placed in the %WINDIR%\system32 directory and **sapjcorfc.dll** should be placed in the same directory as sapjco.jar Middleware_home\Oracle_SOA1\soa\thirdparty\ApplicationAdapters\lib). On other platforms, use the corresponding location.

   These library files given below vary by operating system.

Table 22–7 Library Files According to Operating System

Adapter versions	Library Files
Linux/Solaris/OS400:	libsapjcorfc.so librfccm.so
HP-UX:	librfccm.sl libsapjcorfc.sl
AIX:	librfccm.so libsapjcorfc.so

On UNIX platforms, the directory in which the shared library files are located must be added to the shared library variable applicable to the operating system.

The following table is a list of platforms and associated variables:

Table 22–8 Associated Variables According to the Platform

Platform	Variable
AIX	LIBPATH
HP-UX	SHLIB_PATH
Other UNIX Platforms	LD_LIBRARY_PATH

Solaris: The following are the two supported methods for specifying the SAP library files:

- Copy the SAP JCO files (sapjco.jar, librfccm.so, and libsapjcorfc.so) to jdk/jre/lib/sparc/server
- Copy the SAP JCO files to /usr/j2sdk1.4.2_09/jre/lib/sparcv9/server

Alternatively, you may add the path to these files to your environment variable definition using the Application Server Control Console.

For details on application server administration options, see *Oracle Application Server Administrator's Guide.*

See *Oracle Fusion Middleware Application Adapter for SAP R/3 User's Guide for Oracle WebLogic Server* for any additional steps required for SAP R/3

22.1.7 SAP Adapter Configuration

The Business Service Engine (BSE) exposes, as web services, enterprise assets that are accessible from the adapter regardless of the programming language or the particular operating system.

In addition, you can use BSE as a standalone Java application running in Oracle WebLogic Integration.

BSE Configuration is required in SAP adapter for SAP Inbound adapter configuration and JCA. Configuration is required for SAP Outbound adapter configuration and these details are mentioned in the document below.

The J2CA runs in J2EE Connector Architecture compliant application servers and uses the Common Client Interface (CCI) to provide integration services using Oracle Application Adapter for SAP R/3. After you deploy the connector, you can access the adapter.

22.1.7.1 Configuring a File System Repository

The default location for the repository on Windows is:

wls_home\ApplicationAdapters\ibse.war\ibserepo.xml

22.1.7.2 Configuring the Oracle Database Repository for J2CA

1. Execute the iwse.ora SQL script on the computer where the SOA database is installed. The iwse.ora SQL script is located in the following directory: wls_ home\ApplicationAdapters\etc.
2. Run the sql script by connecting to database with user name and password

   SQL > @ iwse.ora
3. Create the jcatransport.properties file and save it in the following directory: wls_ home\ ApplicationAdapters \config\J2CA_SampleConfig
4. Enter values for iwafjca.repo.url, iwafjca.repo.user and iwafjca.repo.password fields in the newly created jcatransport.properties file, as shown in the following example:

   iwafjca.repo.url=jdbc:oracle:thin:@DB IP address:port:orcl

   iwafjca.repo.user=user name

   iwafjca.repo.password=password
5. Navigate to the following directory: WLS_ HOME\erp-adapters\iwafjca.rar\META-INF
6. Open the ra.xml file in a text editor.
7. Provide the JDBC connection information as a value for the IWAYRepo_URL Property.
8. Provide a valid user name for the IWAYRepo_User property.
9. Provide a valid password for the IWAYRepo_Password property.
10. Save your changes to the *ra.*xml file.
11. Execute the iwse.ora SQL script on the computer where the database is installed.

Note: The jcatransport.properties file is required

22.1.7.3 Configuring the Oracle Database Repository for BSE

1. Execute the iwse.ora SQL script on the computer where the database is installed.

   The iwse.ora SQL script is located in the following directory:

   wls_home\ ApplicationAdapters\etc

   SQL>@ iwse.ora
2. Display the BSE configuration page in a browser:

   http://host name: port/ibse/IBSEConfig where **host name** is the system where BSE is installed and **port** is the port number on which BSE is listening.
3. Configure the system settings. The following table lists the parameters with descriptions of the information to provide.

Table 22–9 Parameters to Configure the System Settings

Parameter	Description
Language	Specify the required language
Adapter	Lib
Directory	Enter the full path to the directory where the adapter jar files reside. Encoding Only UTF-8 is supported.
Debug Level	Specify the debug level from the following options: None Fatal Error Warning Info Debug

4. Configure the repository settings.

   BSE requires a repository to store transactions and metadata required for the delivery of web services.

Table 22–10 Parameters to Configure the Repository Settings

Parameter	Description
Repository	Select either **Oracle** or **File** (Do not use for BSE in production environments.)
Repository URL	Enter the JDBC URL to use when opening a connection to the database. For example, the following repository URL format is used when connecting to Oracle: jdbc:oracle:thin:@host name:port;SID
Repository Driver	Provide the driver class to use when opening a connection to the database (optional). For example, the following repository driver format is used when connecting to Oracle: oracle.jdbc.driver.OracleDriver
Repository User	Enter a valid password that is associated with the user ID.
Repository Password	Enter a valid password that is associated with the user ID.
Repository Pooling	If selected, repository pooling is used. This option is disabled by default.

5. Click **Save**

22.1.7.4 Configuring an HTTP Repository

1. Start **Application Explorer**.
2. Right-click the **Configurations** node in the left pane and select **New**. The N**ew Configuration** dialog box opens.
3. Type a name for the configuration and click **OK**.
4. Select **JCA** from the **Service Provider** list box and enter an HTTP target value in the **Home field**.
5. Use the following format for the HTTP target value:

   http://host name: port/iwafjca/JCAServlet

   For example: http://iwserv14:7777/iwafjca/JCAServlet
6. Click **OK**.
7. The new HTTP repository connection is added to the **Configurations** node.
8. Once you connect to the remote server, you can create new **Adapter targets**, generate WSDL documents, and store them in the remote server.

22.1.7.5 Application Explorer

Oracle Adapter Application Explorer (Application Explorer), a GUI tool which uses SAP R/3 object repository metadata to build XML schemas and web services to handle adapter requests or event data.

22.1.7.6 Starting Application Explorer

On Windows, execute the `ae.bat` file, which is found under wls_home\ApplicationAdapters\tools\iwae\bin, where **wls_home** is the directory where Oracle WebLogic Server is installed.

On UNIX, load the `iwae.sh` script file, which is found under wls_home/ApplicationAdapters /tools/iwae/bin, where **wls_hom**e is the directory where Oracle WebLogic Server is installed.

22.1.7.7 Creating a Configuration for J2CA Connector Application Using Application Explorer

To create a configuration for Oracle Adapter J2EE Connector Architecture (J2CA) using Application Explorer, you must first define a new configuration.

This is a prerequisite for deploying J2CA as a web application in Oracle WebLogic Integration.

22.1.7.8 Defining a New Configuration for J2CA

To define a new configuration for J2CA:

1. Start **Application Explorer**.

   For more information, see Section 22.1.7.6, "Starting Application Explorer".

2. Right-click **Configurations** and select **New**. The **New Configuration** dialog box is displayed.

3. Enter a name for the new configuration, for example, J2CA_SampleConfig, and click **OK**. The name of the J2CA configuration that is specified here is used during the J2CA deployment process.

4. From the **Service Provider** list, select **JCA**.

5. In the Home field, enter a path to your J2CA configuration directory where the repository, schemas, and other information is stored, for example: c:\Middleware_home\Oracle_SOA1\soa\thirdparty\ApplicationAdapters

6. Click **OK**.

   A node representing the new configuration appears beneath the root configurations node. For example: Configurations: J2CA_SampleConfig

22.1.7.9 Configuring Settings for the J2CA Connector Application

1. Locate the ra.xml file, which is located in the following directory: wls_home\erp-adapters\iwafjca.rar\META-INF\ra.xml

2. Open the *ra*.xml file in an editor.

3. Enter a value for the **IWayHome** property.

   This is the folder where the adapter is installed. For example:

   ```
   <Config-property>

   <config-property-name>IWayHome</config-property-name>
   ```

```
<config-property-type>java.lang.String</config-property-type>

<config-property-value>c:\ Middleware_home\Oracle_
SOA1\soa\thirdparty\ApplicationAdapters\</config-property-value>

</config-property>
```

4. Enter a value for the **IWayConfig** property.

   This is the value that you specified when you created a new J2CA configuration using Application Explorer. For example:

```
<config-property>

<config-property-name>IWayConfig</config-property-name>

<config-property-type>java.lang.String</config-property-type>

<config-property-value>J2CA_SampleConfig</config-property-value>

</config-property>
```

5. Enter a value for the **Loglevel** property.

   This property can be set to **DEBUG**, **INFO**, or **ERROR**. For example:

```
<config-property>

<config-property-name>LogLevel</config-property-name>
```

6. Save the *ra*.xml file and exit the editor.

22.1.7.10 Deploying the J2CA Connector Application Using the Oracle WebLogic Server Administration Console

To deploy the J2CA Connector Application:

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.

   Open the Oracle WebLogic Server Administration Console in a web browser by entering the following URL: http://hostname:port/console where **host name** is the name of the computer where Oracle WebLogic Server is running and **port** is the port for the domain you are using. The port for the default domain is 7001

2. Logon to admin console by giving user name and password. In the **Domain Structure** section in the left pane, click **Deployments**. The **Deployments** page is displayed.

3. Click **Install** and the **Install Application Assistant** page is displayed

4. Browse to the following directory:

   C:\Middleware_home\Oracle_
   SOA1\soa\thirdparty\Application-Adapters\iwafjca.rar.

   Select **Radio,** next to *iwafjca*.rar and click **Next**.The **Choose Targeting Style** page is displayed.

5. Leave the default **Install this deployment as an application** selected and click **Next**.

6. The **Optional Settings** page is displayed.

7. Click **Next** leaving the default values.

8. The **Summary** page is displayed.

9. Click **Finish**. The **Settings** page for the J2CA (iwafjca) Connector Application opens.
10. Click **Save**. The following messages are displayed, which indicate a successful deployment.
11. In the **Domain Structure** section in the left pane, click **Deployments**.
12. Navigate through the table that lists all the deployed applications until you find the **J2CA (iwafjca) Connector Application**.
13. Select the check box next to iwafjca.
14. Click the **Start** submenu (down arrow) and select **servicing all requests**.
15. The **Start Application Assistant** is displayed.
16. Click **Yes** to start the selected deployment.
17. From the list of deployed applications, select **iwafjca**.
18. Click the **Testing** tab.
19. The **Outbound Connection Pools and Connections Testing** page is displayed.
20. Select the check box next to eis/OracleJCAAdapter/DefaultConnection and click **Test**.
21. The **Test Result** column indicates **Passed**.

22.1.7.11 Deploying the J2CA Installation Verification Program (IVP) Using the Oracle WebLogic Server Administration Console

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.

   Open the Oracle WebLogic Server Administration Console in a web browser by entering the following URL: http://hostname:port/console where **hostname** is the name of the computer where **Oracle WebLogic Server** is running and **port** is the port for the domain you are using. The port for the default domain is 7001
2. Logon to admin console by giving user name and password. In the **Domain Structure** section in the left pane, click **Deployments**. The **Deployments** page is displayed.
3. Click **Install** and the **Install Application Assistant** page is displayed
4. Browse to the following directory:

   C:\ Middleware_home\Oracle_ SOA\soa\thirdparty\Application-Adapters\iwafjca.rar.

   Click **Next**. The **Choose Targeting Style** page is displayed.
5. Leave the default **Install this deployment as an application** selected and click **Next**.
6. The **Optional Settings** page is displayed. In the **Name field**, enter: **Iwafjcatest**.
7. The **Summary** page is displayed.
8. Click **Finish**. The **Settings** page for the **J2CA** (iwafjca) **Installation Verification Program** (IVP) opens.
9. Click **Save**. The following messages are displayed, which indicate a successful deployment.
10. In the **Domain Structure** section in the left pane, click **Deployments**.

11. Navigate through the table that lists all the deployed applications until you find the **J2CA** (iwafjcatest) **Installation Verification Program** (IVP).
12. Select the check box next to **iwafjcatest**.
13. Click the **Start** submenu (down arrow) and select **servicing all requests**.
14. The **Start Application Assistant** is displayed.
15. Click **Yes** to start the selected deployment.
16. From the list of deployed applications, select **iwafjcatest**.
17. Click the **Testing** tab.
18. The **Deployment Tests** page is displayed. Click the links given in that page to verify the installation.

22.1.7.12 Connecting to a J2CA Configuration Using Application Explorer

To connect to a new J2CA configuration:

1. Right-click the configuration to which you want to connect, for example, J2CA_SampleConfig.
2. Select **Connect**. Nodes appear for **Adapters** and **Events**. You can configure events using a J2CA configuration only.
3. Use the **Adapters** folder to create inbound interactions with Oracle Application Adapter for SAP R/3. For example, you can use the SAP node in the Adapters folder to configure a service that updates SAP R/3.
4. Use the **Events** folder to configure listeners that listen for events in SAP R/3.
5. You can now define new targets to Oracle Application Adapter for SAP R/3.

22.1.7.13 Creating a Configuration for Business Services Engine Using Application Explorer

Defining a new configuration for BSE

1. Start **Application Explorer**. For more information, see Section 22.1.7.6, "Starting Application Explorer".
2. Right-click **Configurations** and select **New**.
3. The **New Configuration** dialog box is displayed.
4. Enter a name for the new configuration, for example, BSE_SampleConfig, and click **OK**. The name of the BSE configuration that is specified here is used during the BSE deployment process.
5. From the **Service Provider** list, select **iBSE**.
6. In the iBSE URL field, accept the default URL or replace it with a different URL with the following format: http://host name:port/ibse/IBSEServlet where **host name** is the system on which Oracle WebLogic Integration resides and **port** is the HTTP port number where Oracle WebLogic Integration is listening.
7. Click **OK**. A node representing the new configuration appears beneath the root **Configurations** node.

22.1.7.14 Configuring and Deploying Business Services Engine

Configuring settings for BSE:

1. Locate the web.xml file, which is located in the following directory:

   *wls_home**erp-adapters**ibse.war**WEB-INF**web*.xml

2. Open the web.xml file in an editor.

3. Enter a value for the ibseroot parameter.

   This is the folder where the BSE files are stored in subdirectories for each adapter.

   For example:

   ```
   <context-param>

   <param-name>ibseroot</param-name>

   <param-value>C:\ Middleware_home\Oracle_
   SOA1\soa\thirdparty\Application-Adapters\ibse.war</param-value>

   <description>ibse root directory</description>

   </context-param>
   ```

4. Enter a value for the **iway.home** parameter.

5. This is the folder where the adapter is installed.

   For example:

   ```
   <context-param>

   <param-name>iway.home</param-name>

   <param-value> C:\ Middleware_home\Oracle_
   SOA1\soa\thirdparty\Application-adapters /param-value>

   <description>license file location</description>

   </context-param>
   ```

6. Enter a value for the **iway.config** parameter.

   This is the value that you specified when you created a new BSE configuration using Application Explorer.

   For example:

   ```
   <context-param>

   <param-name>iway.config</param-name><param-value>BSE_
   SampleConfig</param-value>

   <description>Base Configuration</description>

   </context-param>
   ```

7. Save the *web*.xml file and exit the editor.

8. From the same directory, open the ibseconfig.xml file in an editor.

9. Enter a value for the **afroot** parameter, which is the path to the adapter lib directory.

   For example:

   ```
   <param name="afroot" type="string" required="false" value="c:\wls_
   home\erp-adapters\lib"/>
   ```

10. Save the *ibseconfig*.xml file and exit the editor.

22.1.7.15 Deploying OracleWLS Adapter Business Services Engine (BSE) Using the Oracle WebLogic Server Administration Console

1. Start the Oracle WebLogic Server for the Oracle WebLogic Server domain that you have configured.

   Open the Oracle WebLogic Server Administration Console in a web browser by enter the following URL: http://hostname:port/console where **hostname** is the name of the computer where **Oracle WebLogic Server** is running and **port** is the port for the domain you are using. The port for the default domain is 7001

2. Logon to admin console by giving user name and password.
3. In the **Domain Structure** section in the left pane, click **Deployments**. The **Deployments** page is displayed.
4. Click **Install** and the **Install Application Assistant** page is displayed
5. Browse to the following directory:

   C:\ Middleware_home\Oracle_SOA1\soa\thirdparty\Application-adapters \ibse.war.

   Select **Radio**, next to **ibse.war** and click **Next**.The **Choose Targeting Style** page is displayed.

6. Leave the default **Install this deployment as an application** selected and click **Next**.
7. The **Optional Settings** page is displayed. Click **Next** again leaving the default values. The **Summary** page is displayed.
8. Click **Finish**. The **Settings** page for the BSE (ibse) Connector Application opens.
9. Click **Save**. The following messages are displayed, which indicate a successful deployment.
10. In the **Domain Structure** section in the left pane, click **Deployments**.
11. Navigate through the table that lists all the deployed applications until you find the **BSE (ibse) Application**.
12. Select the check box next to **ibse**.
13. Click the **Start** submenu (down arrow) and select servicing all requests.
14. The **Start Application Assistant** is displayed.
15. Click **Yes** to start the selected deployment.
16. From the list of deployed applications, select **ibse**.
17. Click the **Testing** tab.
18. Click the following link: `http://soahostname:soaport/ibse.`

22.1.7.16 Connecting to a BSE Configuration Using Application Explorer

1. Right-click the configuration to which you want to connect, for example, **BSE_ SampleConfig**. Select **Connect**.
2. Nodes appear for **Adapters**, **Events**, and **Business Services** (also known as Webservices).
3. The **Business Services** node is only available for BSE configurations.
4. **Events** are not applicable when using a BSE configuration. You can configure events using a J2CA configuration only.

5. As a result, you can disregard the **Events** node that appears for a BSE configuration.
6. The following is an example of a BSE configuration named BSE_SampleConfig:

22.1.7.17 SAP Inbound Adapter Configuration

As part of SAP Inbound adapter configuration, BAPI wsdls should be generated by following the below steps

1. Start an **Application Explorer**.
2. Click **Adapters** in the BSE_SampleConfig, **MySAP**, **Create new target**.
3. Create **InboundConnection**.
4. Go to **Remote Function Modules**.
5. Click **Find**, Search for each service.
6. Right-click **Create Web Service**, enter **Service Name** and **Description**.
7. Click **OK**

   The following BAPI wsdls are generated:

   - BAPI_MATERIAL_GET_ALL
   - BAPI_MATERIAL_GETALL
   - BAPI_STDMATERIAL_GETINTNUMBER
   - BAPI_MATERIAL_GET_DETAIL
   - CCAP_ECN_MAINTAIN
   - CCAP_REV_LEVEL_MAINTAIN
   - BAPI_MATERIAL_SAVEDATA
   - CSAP_MAT_BOM_CREATE
   - CSAP_MAT_BOM_MAINTAIN
   - CSAP_MAT_BOM_ALLOC_CREATE
   - CSAP_MAT_BOM_READ
   - BAPI_MAT_BOM_EXISTENCE_CHECK

22.1.7.18 SAP Outbound Adapter Configuration

1. Create a new connection for Outbound, go to **Events**, **MySAP**, **Channels** (without creating Channel first, you cannot proceed).
2. Enter **Channel name**: MATMAS
3. Navigate to **ALE** (IDOCS), right click, search for MATMAS01, right-click **MATMAS** and select **Create Inbound JCA Service (Event)**.

   This create three files under the following path:

   Middleware_home/Oracle_SOA1/soa/thirdparty/ApplicationAdapters/wsdls

   - MATMAS01_receive.jca
   - MATMAS01_receive.wsdl
   - MATMAS01_receive_request.xsd

22.2 Configuring and Deploying the Design to Release: Agile - SAP Integration

This section discusses the Integration configuration and deployment process. There are two steps:

1. Configure your integration using the DCW.
2. Deploy the integration to the Fusion Middleware server.

22.2.1 Configuring the Design to Release: Agile - SAP Integration

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

To configure the Design to Release: Agile - SAP Integration

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

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. Restart 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 DCW.

1. Click **Next**.
2. Select the **Design to Release: Agile - SAP** integration
3. Click **Next**.

22.2.1.1 Specify Integration Server Details

To specify Integration Server details:

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

22.2.1.2 Specify Agile PLM Details

To specify Agile PLM application details:

1. Enter information about your Agile PLM installation in the Agile PLM Application Details screen.

2. Click **Next**.

22.2.1.3 Specify SAP Server Details

To specify SAP Server details:

1. Enter information about your SAP Server in the SAP server details screen.

2. Click **Next**.

22.2.1.4 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 22.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

22.2.2 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.

22.2.3 Deploying the Design to Release: Agile - SAP Integration

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 22–11 Deployment Commands for the Design to Release: Agile - SAP integration

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/AgileToSAP/DeploymentPlans/AgileToSAPDP.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DDeploymentPolicyFile=/<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPConditionalPolicy.xml -DSupplementaryDeploymentPlan=/<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPSupplementaryDP.xml -l /<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPDP.log`
Microsoft Windows	`ant -f /<AIA_HOME>/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=/<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPDP.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DDeploymentPolicyFile=/<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPConditionalPolicy.xml -DSupplementaryDeploymentPlan=/<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPSupplementaryDP.xml -l /<AIA_HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPDP.log`

> **Note:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

22.3 Performing Postdeployment Configurations

This sections includes the following topics:

- Section 22.3.1, "Configuring the Agile PLM Credentials"
- Section 22.3.2, "Enabling the NPR & SYNC Flows"

22.3.1 Configuring the Agile PLM Credentials

Agile PLM applies HTTP basic authentication to handle AIA Indication result messages by an Agile PLM host account. You must add the Agile PLM credentials to Fusion Middleware for the HTTP basic authentication connection.

To configure credential:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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** and **Keys** with the names **AgileWebservicesKey** and **AIABasicCredentials**.

In **AgileWebservicesKey** enter the agile admin user name and password and click ok t save the key.

In **AIABasicCredentials** enter the user name and password for Weblogic, and then click ok to save the key.

22.3.2 Enabling the NPR & SYNC Flows

To enable the NPR & SYNC flows in the Design to Release: Agile - SAP Pre-Built Integration, you must update the config.properties file located in *NPRpx*.jar:

> **Note:** Before performing any changes, back up the *NPRpx*.jar file.

1. In the Agile server, navigate to <AgileHome>/integration/sdk/extensions.
2. Unzip *NPRpx*.jar.
3. Open config.properties file.
4. Update *Host* and *Port* values for the following variables:
   a. WS_LOCATION_ CRETEITEMFLOW=http://<<FMWHost>>:<<ManagedPort>>/soa-infra/services/default/CreateItemAgileReqABCS/NPRpx
   b. WS_LOCATION_ SYNCITEMFLOW=http://<<FMWHost>>:<<ManagedPort>>/soa-infra/services/default/CreateItemAgileReqABCS/NPRpx

5. Check that the value for **NPR_PX_TIMEOUT** is *90000000*. This is the recommended value.
6. Update the SOA_LOGIN_USERNAME and SOA_LOGIN_PASSWORD values with your username and password.

   The password must be encrypted. To encrypt the password:

   a. In the Agile Server, navigate to <AgileHome>/agileDomain/bin

   b. Run the encryption script "./encryptpwd.sh <*PasswordToBeEncrypted*>".
7. Save your changes and rezip *NPRpx*.jar.
8. Restart the Agile server.

22.4 Verifying Deployment

To verify the Design to Release: Agile - SAP integration deployment:

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 Design to Release: Agile - SAP integration services were installed.

   1. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   2. Log in with the server admin user name. For access details, contact the system administrator.
   3. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default**
   4. Verify that the following services are installed in the Weblogic Oracle Enterprise Manager Fusion Middleware Control after the successful integration installation.

   Design to Release Agile - SAP integration services

   Agile Services

   Adapter Services

   - ACSAXMLJMSConsumer
   - ChangeStatusDBAdapter

   RequesterABCS

   - CreateItemAgileReqABCS
   - CreateItemAgileReqABCSImpl
   - ProcessEngineeringChangeOrderAgileReqABCSImpl

   ProviderABCS

   - UpdateItemListAgileProvABCSImpl

Utility Services

- CreateQueueControlService
- CreateQueueService
- QueueProcessorService
- QueueProcessorServiceImpl

SAP Services

Adapter Services

- BOMServiceESB
- ECOService
- ItemServiceESB
- ReserveItemService

EBF

- CreateEngineeringChangeOrderListEBF

EBS

- EngineeringChangeOrderEBS
- EngineeringChangeOrderResponseEBS
- ItemEBSV2
- ItemResponseEBSV2
- BillOfMaterialsEBS
- BillOfMaterialsResponseEBS

ProviderABCS

- CreateBillOfMaterialsListSAPProvABCSImpl
- CreateEngineeringChangeOrderListSAPProvABCS
- ProcessBillOfMaterialsListSAPProvABCS
- ProcessBillOfMaterialsListSAPProvABCSImpl
- ReserveItemSAPProvABCS
- SyncItemListSAPProvABCS
- UpdateBillOfMaterialsListSAPProvABCSImpl

RequesterABCS

- UpdateItemListSAPReqABCS
- UpdateItemListSAPReqABCSImpl

3. Confirm that the AIA Foundation Manager components are successfully installed.
   1. Navigate to the AIA Console URL: *http://<server name>:<portnumber>/AIA*
   2. Log in with server admin user name.
   3. Navigate to **Setup**, **System** to access the **ApplicationRegistry** page.
4. Check the rows for the following set of values

Table 22–12 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	9.3.2 (Out of the Box) This can be edited to appropriate version of Agile PLM.

Table 22–13 Application Registry Values for SAP

Field	Value
Internal ID	SAP_01
System Code	SAP_01
System Description	SAP
IP Address	IP address of the SAP Server 4.7 or ECC 6.0
System Type	SAP
Application Type	SAP_01
Version	4.7 (Out of the box) This can be edited to appropriate version of SAP Server

22.5 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 integration have locally attached security policies.

To validate locally attached security policies:

1. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 22–14 Service Policy Attachments for Design to Release: Agile - SAP Integration

Composite	Service Policy
QueueProcessorService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CreateQueueService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
CreateQueueControlService	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON
QueueProcessorServiceImpl	oracle/aia_wss_saml_or_username_token_service_policy_OPT_ON

Table 22–15 No Authentication Service Policy Attachments for Design to Release: Agile -SAP Integrations

Composite	Service Policy
UpdateItemListSAPReqABCS	oracle/no_authentication_service_policy
UpdateItemListSAPReqABCSImpl	oracle/no_authentication_service_policy

Table 22–16 No Authentication Client Policy Attachments for Design to Release: Agile -SAP Integration

Composite	Reference	Client Policy
ItemEBSV2	ReserveItemSAPProvABCS	oracle/no_authentication_client_policy
ItemResponseEBSV2	CreateEngineeringChangeOrderListEBF	oracle/no_authentication_client_policy
BOMServiceESB	CreateBillOfMaterialService	oracle/no_authentication_client_policy
EngineeringChangeOrderEBS	CreateEngineeringChangeOrderListEBF	oracle/no_authentication_client_policy
EngineeringChangeOrderResponseEBS	ProcessEngineeringChangeOrderAgileReqABCSImpl	oracle/no_authentication_client_policy
BillOfMaterialsResponseEBS	ProcessBillOfMaterialsListSAPProvABCS	oracle/no_authentication_client_policy

Table 22–17 Saml Opt On Client Policy Attachments for Design to Release: Agile- SAP Integration

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

Table 22–18 Wss User Name Token Client Policy Attachments for Design to Release: Agile - SAP Integration

Composite	Reference	Client Policy
UpdateItemListAgileProvABCSImpl	ItemEBSV2	oracle/wss_username_token_client_policyAIABasicCredentials)
CreateBillOfMaterialsListSAPProvABCSImpl	BillOfMaterialsErrorResponseEBS	oracle/wss_username_token_client_policyAIABasicCredentials)
ProcessBillOfMaterialsListSAPProvABCSImpl	Retrieve_BOMData	oracle/wss_username_token_client_policyAIABasicCredentials)

Table 22–18 (Cont.) Wss User Name Token Client Policy Attachments for Design to Release: Agile - SAP Integration

Composite	Reference	Client Policy
UpdateBillOfMaterialsListSAPProvABCSImpl	BillOfMaterialsErrorResponseEBS	oracle/wss_username_token_client_policyAIABasicCredentials)
ReserveItemSAPProvABCS	GenerateItemNumberService_Reserve	oracle/wss_username_token_client_policyAIABasicCredentials)
SyncItemListSAPProvABCS	ItemServiceESB	oracle/wss_username_token_client_policyAIABasicCredentials)

Table 22–19 Wss Http Token Client Policy Attachments for Design to Release: Agile-SAP Integration

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

All Client policies (oracle/wss_username_token_client_policy) are enabled through AIASecurityConfigurationProperties.xml to composites.

All service policies (oracle/wss_username_token_service_policy) are enabled through Global Policy Sets.

The following is a list of **Global Policy Sets** that should be enabled for the **Composites**.

- AIA_ABCS_WSServicePolicySet
- AIA_EBF_WSServicePolicySet
- AIA_EBS_WSServicePolicySet

For more information about security validation, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Working with Security."

For integration implementation, see *Agile Product Lifecycle Management Integration Pack for SAP: Design to Release Implementation Guide* .

22.6 Undeploying the Design to Release: Agile - SAP Integration

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 22–20 Undeployment Commands for the Design to Release: Agile - SAP 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/AgileToSAP/DeploymentPlans/AgileToSAPUndeployDP.xml -l <AIA_ HOME>/pips/AgileToSAP/DeploymentPlans/AgileToSAPUndeployDP.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\AgileToSAP\DeploymentPlans\AgileToSAPUndeployDP.xml -l <AIA_ HOME>\pips\AgileToSAP\DeploymentPlans\AgileToSAPUndeployDP.log`

3. Restart the SOA server.
4. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

23

Configuring and Deploying the Oracle Process Integration Pack for Oracle Utilities Field Work

This chapter discusses how to configure and deploy the Oracle Process Integration Pack for Oracle Utilities Field Work.

This chapter includes the following sections:

- Section 23.1, "Deployment Configuration Wizard"
- Section 23.2, "Configuring and Deploying the Oracle Process Integration Pack for Oracle Utilities Field Work"
- Section 23.3, "Verifying Deployment"
- Section 23.4, "Undeploying the Oracle Process Integration Pack for Oracle Utilities Field Work"

23.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Oracle Process Integration Pack for Oracle Utilities Field Work. Enter the details of the Oracle Process Integration Pack for Oracle Utilities Field Work screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

23.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 23–1 Integration Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 23–1 (Cont.) Integration Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates with managed servers for the domain. Select the managed server from the list. If you are deploying the integration 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.

23.1.2 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 23–2 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 _____
CCB User Password	This value is the password for the user specified above. CCB User Password is _____

23.1.3 Oracle Utilities Work and Asset Management Server Details Screen

Use this screen to enter details related to Oracle Utilities Work and Asset Management server.

> **Note:** If your implementation does not include Oracle Utilities Work and Asset Management, you must still enter a "dummy" url for the WAM Service URL field to avoid server errors later on during the installation. For example, enter: http://demo:8888/WAM/services. Also enter any values for the WAM User Name and WAM Password fields.

The screen contains the following fields:

Table 23–3 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.example.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 _____

23.1.4 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:

23.1.4.1 Oracle Utilities Mobile Workforce Management Server Details Screen (Version 1.x)

Table 23–4 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 _____
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 User Name and Password for both server and appointment booking are not used in the 1.x version, but are reserved for future use.

23.1.4.2 Oracle Utilities Mobile Workforce Management Server Details Screen (Version 2.x)

Table 23–5 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 _____
MWM User Password	This value is the password for the user specified above. MWM User Password is _____
MWM Appointment Booking Service URL	Leave option blank.
MWM Appointment Booking Username	Leave option blank.
MWM Appointment Booking Password	Leave option blank.

Note: MWM Appointment Booking URL, MWM Appointment Booking User Name and MWM Appointment Booking Password are not valid in 2.x version. Leave these blank.

23.2 Configuring and Deploying the Oracle Process Integration Pack for Oracle Utilities Field Work

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

23.2.1 Configuring the Oracle Process Integration Pack for Oracle Utilities Field Work

The screens that appear prompt you to enter the data that is required for successful configuration of the Oracle Process Integration Pack for Oracle Utilities Field Work. Keep the completed worksheets of the Oracle Process Integration Pack for Oracle Utilities Field Work screens ready before you launch the DCW.

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

To configure the Oracle Process Integration Pack for Oracle Utilities Field Work:

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. Restart 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 DCW.
6. Click **Next.**
7. Select the **Utilities Field Work PIP**
8. Click **Next**.

23.2.1.1 Specify Integration Server Details

To specify Integration Server details:

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

23.2.1.2 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.**

23.2.1.3 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.**

23.2.1.4 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.**

23.2.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 23.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

23.2.2 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.

23.2.3 Deploying the Oracle Process Integration Pack for Oracle Utilities Field Work

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 23–6 Deployment Commands for the Oracle Process Integration Pack for Oracle Utilities Field Work

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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

23.3 Verifying Deployment

To verify the Oracle Process Integration Pack for Oracle Utilities Field Work deployment:

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 Oracle Process Integration Pack for Oracle Utilities Field Work components were successfully installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

   Note: 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 following items:
   - OU_CCB_01
   - OU_MWM_01
   - OU_WAM_01

For integration implementation, see *Oracle Process Integration Pack for Oracle Utilities Field Work Implementation Guide*.

23.4 Undeploying the Oracle Process Integration Pack for Oracle Utilities Field Work

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 23–7 Undeployment Command for the Oracle Process Integration Pack for Oracle Utilities Field Work

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 integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

24

Configuring and Deploying Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy

This chapter discusses how to configure and deploy the Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy (Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy) integration.

This chapter includes the following sections:.

- Section 24.1, "Deployment Configuration Wizard"
- Section 24.2, "Configuring and Deploying Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration"
- Section 24.3, "Verifying Deployment"
- Section 24.4, "Undeploying the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration"

24.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy integration. Enter the details of the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

24.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 24–1 Integration Server Details Screen

Field	Description
Admin Host Name	This is where the admin server resides. This can be a remote server or the same computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name 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, Domain Name, Admin User name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

24.1.2 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 24–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Hostname	This value is the fully qualified computer name of the Siebel CRM application. Example: `example1.corp.siebel.com`. Siebel Host name is _____
Siebel HTTP Port	This value is the Siebel CRM application port. To find this value, contact your administrator. Example: *8024*. Siebel HTTP Port is _____
Internet Protocol	Specifies the Siebel host internet protocol. For example: *http://*. Siebel host internet protocol is _____
Siebel EAI Application User	To find this value, contact your administrator. Siebel EAI Application User is _____
Siebel EAI Application Password	To find this value, contact your administrator. Siebel EAI Application Password is _____
Siebel Enterprise Server Name	To find this value, contact your administrator. Example: `Siebel` Siebel Enterprise Server Name is _____
Siebel Version	This is the version of the Siebel CRM application. Example: `8.1.1.6`
Siebel Language	This is the language used by the Siebel application. For example, enu. Siebel Language is _____

Note: If you are installing both Oracle Customer Data Synchronization and Oracle Product Data Synchronization Integration Packs for Oracle Utilities Customer Care and Billing and Siebel Energy, ensure the Siebel environment details are the same for both.

In this scenario, a message appears asking you to overwrite the configured Siebel Edge Application. Click **OK** to continue.

24.1.3 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 24–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer name. To find this value, contact the database administrator. Example: `server1.corp.siebel.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	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	To find this value, contact the database administrator. Siebel Database Password is _____
Siebel Database SID	To find this value, contact the database administrator. Siebel Database System ID is _____

24.1.4 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 24–4 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 _____
CCB User Password	This value is the password for the user specified above. CCB User Password is _____

24.1.5 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the java.net application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They

must be set to the proxy server and port respectively. This value is only set when ProxySettings_Enabled is set to *TRUE*.

Table 24–5 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Note: If you are installing both Oracle Customer Data Synchronization and Oracle Product Data Synchronization Integration Packs for Oracle Utilities Customer Care and Billing and Siebel Energy, ensure the Siebel environment details are the same for both.

In this scenario, a message appears asking you to overwrite the configured Siebel Edge Application. Click **OK** to continue.

24.2 Configuring and Deploying Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

24.2.1 Configuring the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy integration. Keep the completed worksheets of the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy integration screens ready before you launch the DCW.

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

To configure the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy 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. Restart the server.

4. Navigate to <AIA_Instance>/bin and run the command `source aiaenv.sh` for Linux based systems, `. ./aiaenv.sh` for AIX 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 DCW.
6. Click **Next.**
7. Select the **Oracle Customer Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy PIP**
8. Click **Next**.

24.2.1.1 Specify Integration Server Details

To specify Integration Server details:

1. Enter information related to your integration server in the **Integration Server Details** screen.

   After providing admin user and password, **Managed Server** and **Port** are automatically selected.
2. Click **Next**.

24.2.1.2 Specify Siebel CRM Server Details

To specify Siebel CRM Server details:

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

24.2.1.3 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.**

24.2.1.4 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.**

24.2.1.5 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information about your Session Pool Manager installation in the **Session Pool Manager Details** screen.

2. Click **Next.**

24.2.1.6 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 24.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

   Note: If you encounter any issues running `aiaconfig.sh` on AIX, see the KIWA report of this integration for further details.

24.2.2 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, `. ./aiaenv.sh` for AIX 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.

24.2.3 Deploying the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

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, `. ./aiaenv.sh` for AIX 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 24–6 Deployment Commands for the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy 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/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyC ustomerDPInstall.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_ instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyC ustomerSupplementaryDP.xml -l <AIA_HOME>/pips/ OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCustomer.log **Example**: ant -f $AIA_HOME/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCu stomerDPInstall.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCu stomerSupplementaryDP.xml -l $AIA_ HOME/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCu stomer.log
Microsoft Windows	ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomerInstallDP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_ instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomerSupplementaryDP.xml -l <AIA_ HOME>\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomerDP.log **Example:** ant -f %AIA_HOME%\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomerDPInstall.xml -DPropertiesFile=%AIA_INSTANCE%\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomerSupplementaryDP.xml -l %AIA_ HOME%\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyC ustomer.log

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

24.3 Verifying Deployment

To verify the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration deployment:

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 Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration components were successfully installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - ProcessSalesOrderBillingAccountListSiebelUtilitiesConsumer
   - ProcessSalesOrderBillingAccountListSiebelUtilitiesProducer

- ProcessSalesOrderSiebelUtilitiesJMSConsumer
- ProcessSalesOrderSiebelUtilitiesReqABCSImpl
- QueryCustomerPartyListSiebelUtilitiesProvABCSImplV1
- SyncAccountSiebelUtilitiesAggregatorAdapter
- SyncAddressSiebelUtilitiesAggregatorAdapter
- SyncBPSiebelUtilitiesAggregatorAdapter
- SyncContactSiebelUtilitiesAggregatorAdapter
- SyncCustomerPartyOUCCBUtilitiesJMSConsumerV1
- SyncCustomerPartyOUCCBUtilitiesProvABCSImpl
- SyncCustomerPartyOUCCBUtilitiesProvJMSProducerV1
- SyncCustomerSiebelUtilitiesEventAggregator
- SyncCustomerSiebelUtilitiesEventAggregatorRoutingService
- SyncSiebelUtilitiesAggrEventConsumer
- SyncSPSiebelUtilitiesAggregatorAdapter
- UpdateCustomerPartySiebelUtilitiesReqABCSImplV1
- UtilitiesCustomerPartyEBSV2
- UtilitiesProcessBillingAccountListEBF
- UtilitiesProcessSalesOrderBillingAccountListEBF
- UtilitiesSalesOrderEBSV2

3. Navigate to **Farm_soa_domain**, **Weblogic Domain**, right click <domain name>, **Security**, **Credentials**, **oracle.wsm.security** and verify the following items:
   - OU_CCB_01

For integration implementation, see *Oracle Process Integration Pack for Oracle Utilities Field Work Implementation Guide*.

24.4 Undeploying the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

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 24–7 Undeployment Command for the Customer Data Synchronization for Oracle Utilities CCB and Siebel Energy 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/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCustomerDPUnInstall.xml -l <AIA_ HOME>/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCustomerUndeployDP.log **Example:** ant Uninstall -f $AIA_HOME/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCustomerDPUnInstall.xml -l $AIA_ HOME/pips/OUCCBToSiebelEnergyCustomer/DeploymentPlans/OUCCBToSiebelEnergyCustomerUndeployDP.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\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyCustomerDPUnInstall.xml -l <AIA_ HOME>\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyCustomerUndeployDP.log **Example:** ant Uninstall -f %AIA_HOME%\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=%AIA_INSTANCE%\config\AIAInstallProperties.xml -DDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyCustomerDPUnInstall.xml -l %AIA_ HOME%\pips\OUCCBToSiebelEnergyCustomer\DeploymentPlans\OUCCBToSiebelEnergyCustomerUndeployDP.log

3. Restart the SOA server.
4. Verify that all the integration composites are undeployed correctly.
5. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

25

Configuring and Deploying Product Data Synchronization for Oracle Utilities CCB and Siebel Energy

This chapter discusses how to configure and deploy the Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy (Product Data Synchronization for Oracle Utilities CCB and Siebel Energy) integration.

This chapter includes the following sections:

- Section 25.1, "Deployment Configuration Wizard"
- Section 25.2, "Configuring and Deploying Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration"
- Section 25.3, "Verifying Deployment"
- Section 25.4, "Undeploying the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration"

25.1 Deployment Configuration Wizard

The DCW screens prompt you to enter the data required for successful configuration of the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration. Enter the details of the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration screens below, take a printout and keep it ready when you run the DCW. This action enables faster and error free configuration.

25.1.1 Integration Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the integration server. This screen contains the following fields:

Table 25–1 Integration Server Details Screen

Field	Description
Admin Host Name	This is where the admin server resides. This can be a remote server or the same computer where the AIA Pre-Built Integrations Installer is launched. Example: `server1.company.com`. The Admin Host Name is _____
Admin Port	This is the port number on which Weblogic Admin server is started. To find this value contact 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 Name	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The User Name 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, Domain Name, Admin User name and Admin Password, this field gets populated with managed servers for the domain. Select the manager server from the list. If you are deploying the integration to a SOA cluster, you should select the cluster name in this field. The Managed Server is _____
Managed Port	This field gets updated automatically after you select the managed server. If you have configured a SOA Cluster the SOA Cluster port appears in the list.

Note: If you are installing both Oracle Customer Data Synchronization and Oracle Product Data Synchronization Integration Packs for Oracle Utilities Customer Care and Billing and Siebel Energy, ensure the Siebel environment details are the same for both.

25.1.2 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 25–2 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Hostname	This value is the fully qualified computer name of the Siebel CRM application. Example: `example1.corp.siebel.com`. Siebel Host name is _____
Siebel HTTP Port	This value is the Siebel CRM application port. To find this value, contact your administrator. Example: *8024*. Siebel HTTP Port is _____
Internet Protocol	Specifies the Siebel host internet protocol. For example: *http://*. Siebel host internet protocol is _____
Siebel EAI Application User	To find this value, contact your administrator. Siebel EAI Application User is _____
Siebel EAI Application Password	To find this value, contact your administrator. Siebel EAI Application Password is _____

Table 25–2 (Cont.) Siebel CRM Server Details Screen Fields

Field	Description
Siebel Enterprise Server Name	To find this value, contact your administrator. Example: `Siebel` Siebel Enterprise Server Name is _____
Siebel Version	This is the version of the Siebel CRM application. Example: `8.1.1.6`
Siebel Language	This is the language used by the Siebel application. For example, enu. Siebel Language is _____

Note: If you are installing both Oracle Customer Data Synchronization and Oracle Product Data Synchronization Integration Packs for Oracle Utilities Customer Care and Billing and Siebel Energy, ensure the Siebel environment details are the same for both.

In this scenario, a message appears asking you to overwrite the configured Siebel Edge Application. Click **OK** to continue.

25.1.3 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 25–3 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	This value is typically the computer name. To find this value, contact the database administrator. Example: `server1.corp.siebel.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	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	To find this value, contact the database administrator. Siebel Database Password is _____
Siebel Database SID	To find this value, contact the database administrator. Siebel Database System ID is _____

25.1.4 Session Pool Manager Details Screen

The Session Pool Manager (SPM) details are optional and required only when your Siebel server is outside of the firewall. If all your servers are within the network, leave these fields blank.

In the java.net application programming interface (API) used by SPM, proxies are supported through two system properties: `http.proxyHost` and `http.proxyPort`. They must be set to the proxy server and port respectively. This value is only set when ProxySettings_Enabled is set to *TRUE*.

Table 25–4 Session Pool Manager Details Screen Fields

Field	Description
Proxy host url	This determines the server to be set in the system properties for `http.proxyHost` property. Proxy host url is _____
Proxy port	This determines the port to be set in the system properties for the `http.proxyPort` property. Proxy port is _____

Note: If you are installing both Oracle Customer Data Synchronization and Oracle Product Data Synchronization Integration Packs for Oracle Utilities Customer Care and Billing and Siebel Energy, ensure the Siebel environment details are the same for both.

In this scenario, a message appears asking you to overwrite the configured Siebel Edge Application. Click **OK** to continue.

25.2 Configuring and Deploying Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

25.2.1 Configuring the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

The screens that appear prompt you to enter the data that is required for successful configuration of the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration. Keep the completed worksheets of the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration screens ready before you launch the DCW.

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

To configure the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy 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. Restart 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 DCW.

6. Click **Next.**

7. Select the **Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy PIP**

8. Click **Next**.

25.2.1.1 Specify Integration Server Details

To specify Integration Server details:

1. Enter information related to your integration server in the **Integration Server Details** screen.

   After providing admin user and password, **Managed Server** and **Port** are automatically selected.

2. Click **Next**.

25.2.1.2 Specify Siebel CRM Server Details

To specify Siebel CRM Server details:

1. Enter information about your Siebel CRM Server in the **Application Details - Siebel CRM** screen.

2. Click **Next.**

25.2.1.3 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.**

25.2.1.4 Specify Session Pool Manager Details

To specify Session Pool Manager details:

1. Enter information about your Session Pool Manager installation in the **Session Pool Manager Details** screen.

2. Click **Next.**

25.2.1.5 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 DCW and use it in future when you want to deploy the integration. You can configure using the steps described in Section 25.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

Note: If you encounter any issues running `aiaconfig.sh` on AIX, see the KIWA report of this integration for further details.

25.2.2 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, `. ./aiaenv.sh` for AIX 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.

25.2.3 Deploying the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

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, `. ./aiaenv.sh` for AIX 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 25–5 Deployment Commands for the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy 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/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPr oductDPInstall.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_ instance>/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPr oductSupplementaryDP.xml -l <AIA_ HOME>/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPr oduct.log **Example:** ant -f $AIA_HOME/Infrastructure/Install/AID/AIAInstallDriver.xml -DDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPro ductDPInstall.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DSupplementaryDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPro ductSupplementaryDP.xml -l $AIA_ HOME/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyPro ductDPInstall.log
Microsoft Windows	ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_ HOME>\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductDPInstall.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_ instance>\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=<AIA_ HOME>\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductSupplementaryDP.xml -l <AIA_ HOME>\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductDPInstall.log **Example:** ant -f %AIA_HOME%\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductDPInstall.xml -DPropertiesFile=%AIA_INSTANCE%\config\AIAInstallProperties.xml -DSupplementaryDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductSupplementaryDP.xml -l %AIA_ HOME%\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyPr oductDPInstall.log

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the integrations are not displayed.

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 integration 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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

25.3 Verifying Deployment

To verify the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration deployment:

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 Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration components were successfully installed.
   a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - SyncItemCompositionOUCCBUtilitiesReqABCSImpl
   - SyncItemCompositionSiebelUtilitiesProvABCSImpl

- SyncItemCompositionResponseOUCCBUtilitiesProvABCSImpl
- UtilitiesItemCompositionEBS
- UtilitiesItemCompositionResponseEBS
- SyncProductListOUCCBUtilitiesJMSConsumerV1
- SyncProductListResponseOUCCBUtilitiesJMSProducerV1

Note: The Queue needed by Oracle Utilities Customer Care and Billing to publish Products into and the queue needed to read response message from Siebel Energy into Oracle Utilities Customer Care and Billing resides on the Integration Server.

For integration implementation, see *Oracle Product Data Synchronization Integration Pack for Oracle Utilities Customer Care and Billing and Siebel Energy Implementation Guide*.

25.4 Undeploying the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy Integration

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, `. ./aiaenv.sh` for AIX based systems and `aiaenv.bat` for Microsoft Windows to configure the environment.
2. Run the command for your platform.

Table 25–6 Undeployment Command for the Product Data Synchronization for Oracle Utilities CCB and Siebel Energy 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/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyProd uctDPUnInstall.xml -l <AIA_ HOME>/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyProd uctDPUnInstall.log **Example:** ant Uninstall -f $AIA_HOME/Infrastructure/Install/AID/AIAInstallDriver.xml -DPropertiesFile=$AIA_INSTANCE/config/AIAInstallProperties.xml -DDeploymentPlan=$AIA_ HOME/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyProdu ctDPUnInstall.xml -l $AIA_ HOME/pips/OUCCBToSiebelEnergyProduct/DeploymentPlans/OUCCBToSiebelEnergyProdu ctDPUnInstall.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\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyProd uctDPUnInstall.xml -l <AIA_ HOME>\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyProd uctDPUnInstall.log **Example:** ant Uninstall -f %AIA_HOME%\Infrastructure\Install\AID\AIAInstallDriver.xml -DPropertiesFile=%AIA_INSTANCE%\config\AIAInstallProperties.xml -DDeploymentPlan=%AIA_ HOME%\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyProd uctDPUnInstall.xml -l %AIA_ HOME%\pips\OUCCBToSiebelEnergyProduct\DeploymentPlans\OUCCBToSiebelEnergyProd uctDPUnInstall.log

3. Restart the SOA server.
4. Verify that all the integration composites are undeployed correctly.
5. Uninstall the integration following the instructions in Chapter 37, "Uninstalling Oracle AIA".

Part III

Configuring and Deploying AIA RV 3.1.1 PIPs and DIs

This part provides a general introduction to the Oracle AIA RV 3.1.1 PIPs and DIs. It also provides the steps involved in the configuration and deployment of the PIPs and DIs.

This part contains the following chapters:

- Chapter 26, "Configuring and Deploying the Design to Release: Agile PLM for Process - OPM PIP"
- Chapter 27, "Configuring and Deploying the Order to Cash for Siebel CRM - EBS PIP"
- Chapter 28, "Configuring and Deploying Siebel CRM to OIC Integration"
- Chapter 29, "Configuring and Deploying the Lead to Order: CRM OD - EBS PIP"
- Chapter 30, "Configuring and Deploying the LSP Financial Mgmt: OTM - EBS PIP"
- Chapter 31, "Configuring and Deploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"
- Chapter 32, "Configuring and Deploying the LSP Driver Mgmt: OTM - EBS PIP"
- Chapter 33, "Configuring and Deploying Value Chain Planning Base Pack Integration"
- Chapter 34, "Configuring and Deploying the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP"
- Chapter 35, "Configuring and Deploying the Serialization and Tracking: OPSM - EBS integration"

26

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

This chapter discusses how to configure and deploy the Oracle Design to Release Integration Pack for Agile Product Lifecycle Management for Process and Oracle Process Manufacturing (Design to Release: Agile PLM for Process - OPM PIP).

This chapter includes the following sections:

- Section 26.1, "Deployment Configuration Wizard"
- Section 26.2, "Configuring and Deploying Design to Release: Agile PLM for Process - OPM PIP"
- Section 26.3, "Performing Postdeployment Configurations"
- Section 26.4, "Verifying Deployment"
- Section 26.5, "Undeploying the Design to Release: Agile PLM for Process - OPM PIP"

26.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

26.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 26–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 26–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

26.1.2 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 26–2 Agile PLM for Process Application Details Screen Fields

Field	Description
Agile PLM for Process Host	Specifies the system name. Example: `example1.corp.oracle.com`. Agile PLM for Process Host name is _____
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 _____

26.1.3 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 26–3 Oracle E-Business Suite Server Details Screen fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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 _____

Table 26–3 (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: `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.
E-Business Suite Version	This is a drop down list of Oracle E-Business Suite Application versions.

26.1.4 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 26–4 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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.

26.2 Configuring and Deploying Design to Release: Agile PLM for Process - OPM PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

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

The screens that appear in the DCW 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 DCW.

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. Restart 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 DCW.
6. Click **Next.**
7. Select the**Design to Release: Agile PLM for Process - OPM PIP**
8. Click **Next**.

26.2.1.1 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**.

26.2.1.2 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.**

26.2.1.3 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**.

26.2.1.4 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**.

26.2.1.5 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 26.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

26.2.2 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.

26.2.3 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 26–5 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`

> **Note:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

26.3 Performing Postdeployment Configurations

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

To configure credential:

1. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
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 user name and password.
5. Click **OK**.

26.4 Verifying Deployment

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

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - ItemEBSV2
   - ItemResponseEBSV2
   - ProductionRecipeEBS

- ProductionRecipeResponseEBS
- QueryResponsibilityEbizAdapter
- SyncItemListEbizAdapter
- SyncItemListEbizProvABCSImpl
- SyncProductionRecipeListEbizProvABCSImpl
- SyncRecipeListEbizAdapter
- SyncSpecPLM4PAdapter
- SyncSpecPLM4PReqABCSImpl
- TransformAppContextEbizService

26.4.1 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. Log in to the Oracle Enterprise Manager Fusion Middleware Control.
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 26–6 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 26–7 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*, "Working with Security."

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

26.5 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 26–8 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`
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 37, "Uninstalling Oracle AIA".

27

Configuring and Deploying the Order to Cash for Siebel CRM - EBS PIP

This chapter discusses how to configure and deploy the Siebel CRM Integration Pack for Oracle Order Management: Order to Cash (Order to Cash: Siebel CRM - EBS PIP).

This chapter includes the following sections:

- Section 27.1, "Configuring Oracle Data Integrator (Optional)"
- Section 27.2, "Deployment Configuration Wizard"
- Section 27.3, "Configuring and Deploying the Order to Cash: Siebel CRM - EBS"
- Section 27.4, "Performing Postdeployment Configurations"
- Section 27.5, "Verifying Deployment"
- Section 27.6, "Undeploying the Order to Cash: Siebel CRM - EBS PIP"

27.1 Configuring Oracle Data Integrator (Optional)

To run AIA Pre-Built Integrations 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.

27.1.1 Creating Oracle Data Integrator Repositories

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

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

Table 27–1 details a list of ids you must avoid when creating master and work repositories.

Table 27–1 Prohibited IDs

Master Repository Prohibited IDs	Work Repository Prohibited IDs
666	667
611	711
999	516
515	126

When you run the DCW, 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 *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*, "Administering the Oracle Data Integrator Repositories."

27.1.2 Performing Postinstallation Configurations for ODI

Perform the following steps to apply the required patches to your ODI 11.1.1.5.0.

To install prerequisite installer patch #10288265:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 10288265
4. Select your platform
5. Click **Search**
6. Download and install patch #10288265

To install patch #12837214:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 12837214
4. Select your platform
5. Click **Search**
6. Download and install patch #12837214

After applying the patches, launch the ODI Installer:

1. Go to **Topology**.
2. Go to **Physical Architecture**.
3. Find the **XML technologies** and expand it.

   You should see data sources for all DVM's used in your ODI flows.
4. Select each DVM data source.
5. Go to the **JDBC** tab.
6. Append this to the end of the URL "*&back_compat_specific_keywords=true*"

7. Test the data source to make sure the connection is successful.
8. Save your changes.

For a screenshot of this screen in the ODI Installer, see Appendix B, "Oracle Data Integrator Screen".

27.2 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

27.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 27–2 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

27.2.2 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 27–3 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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.

27.2.3 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 27–4 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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 user name is always entered in uppercase. Else the ODI based initial 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. Ensure that the database schema name is always entered in uppercase.

27.2.4 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 27–5 Oracle Transportation Management (OTM) Server Details Screen Fields

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

27.2.5 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 27–6 Oracle Transportation Management (OTM) Database Details Screen Fields (Optional)

Field	Description
OTM Database Host	Specifies the fully qualified system 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 _____

27.2.6 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 27–7 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	Specifies the fully qualified system name of the Siebel CRM application. Example: `example1.corp.oracle.com`. Siebel Host name 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 _____.
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.

27.2.7 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 27–8 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	Specifies the system 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	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 user name is entered with the correct case. Else the ODI based initial 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 _____

27.2.8 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 the *Oracle Data Integrator* (ODI). 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 *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Order Management: Order to Cash* for details on how to deploy and execute these Initial Loads.

Table 27–9 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 must have this location to configure ODI artifacts during the install. It is recommended to choose this location in the same server where ODI software runs. Path for Exported DVMs is _____

27.2.9 Oracle Data Integrator Master Repository Details Screen (Optional)

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

Table 27–10 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 _____
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 _____

27.2.10 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 27–11 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 used for other work repositories. ODI Work Repository ID is: _____

27.2.11 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, 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 27–12 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".

27.3 Configuring and Deploying the Order to Cash: Siebel CRM - EBS

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

27.3.1 Configuring 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 DCW.

By default OTM is not defined as a participating application for the Order to Cash: Siebel CRM - EBS PIP in the DCW. 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 DCW (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. Restart 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 DCW.
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**.

27.3.1.1 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**.

27.3.1.2 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.**

27.3.1.3 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.**

27.3.1.4 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.**

27.3.1.5 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.**

27.3.1.6 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.**

27.3.1.7 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.**

27.3.1.8 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 ODI access installation in the **Oracle Data Integrator Access Information** screens.

   ODI 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.**

27.3.1.9 Specify Oracle Data Integrator Master Repository Details (Optional)

To specify Oracle Data Integrator master repository details:

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

27.3.1.10 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 ODI work repository installation in the **Oracle Data Integrator Work Repository Details for Order to Cash** screen.
2. Click **Next.**

27.3.1.11 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.**

27.3.1.12 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 27.3.2, "Configuring using the Response File". Click **Save Response File** 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 displayed in **Configuration Progress** screen.

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

27.3.2 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.

27.3.3 Deploying the Order to Cash: Siebel CRM - EBS

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 27–13 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

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

27.4 Performing Postdeployment Configurations

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

27.4.1 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 *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Order Management: Order to Cash*, "Implementing the Order to Cash: Siebel CRM – EBS Process Integration Pack".

27.4.2 Configuring Session Pool Manager

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

27.5 Verifying Deployment

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

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - 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. Log in to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).

   b. Expand **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1), Default** and click **AIASessionPoolManager** on the left panel.

   c. Click **Test**.

   d. Enter **Operation** = `Start`.

   e. Under the collapsible section titled **Security**, select **WSS Username Token** and enter the WLS admin user name and password.

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

   g. Click **Test Web Service**.

      You should see a successful initialization response message. For more information and troubleshooting steps, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager".

27.5.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 **Search/Arrow**.
   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 **Search/Arrow** 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 27–14 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
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 27–15 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

Table 27–15 (Cont.) No Authentication Service Policy Attachments for Order to Cash: Siebel CRM - EBS

Composite	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 27–16 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 27–17 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

Table 27–17 (Cont.) No Authentication Client Policy for Order to Cash: Siebel CRM - EBS PIP

Composite	Reference	Client Policy
SyncProductSiebelProvABCSImpl	SWIProductIntegration	oracle/no_authentication_client_policy
SyncItemCompositionListSiebelProvABCSImpl	SWIProductIntegration	oracle/no_authentication_client_policy
ProcessSalesOrderShippingChargeLogisticsProvABCSImpl	IntXmlService	oracle/no_authentication_client_policy

Table 27–18 Wss User Name 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)
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 *Oracle Application Integration Architecture Siebel CRM Integration Pack for Oracle Order Management: Order to Cash*.

27.6 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 27–19 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`
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 27–20 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 37, "Uninstalling Oracle AIA"

28

Configuring and Deploying Siebel CRM to OIC Integration

This chapter discusses how to configure and deploy Siebel CRM Integration to Oracle Incentive Compensation (Siebel CRM to OIC).

This chapter includes the following sections:

- Section 28.1, "Configuring Oracle Data Integrator"
- Section 28.2, "Deployment Configuration Wizard"
- Section 28.3, "Configuring and Deploying Siebel CRM to OIC"
- Section 28.4, "Performing Postdeployment Configurations"
- Section 28.5, "Verifying Deployment"
- Section 28.6, "Undeploying the Siebel CRM to OIC Integration"

28.1 Configuring Oracle Data Integrator

To run AIA Pre-Built Integrations 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.

28.1.1 Creating Oracle Data Integrator Repositories

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

You can use an existing work repository if 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 another repository and not to use 1 or 778 as the Work Repository ID.

When you run the DCW, 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 *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*, "Administering the Oracle Data Integrator Repositories."

28.1.2 Performing Postinstallation Configurations for ODI

Perform the following steps to apply the required patches to your ODI 11.1.1.5.0.

To install prerequisite installer patch #10288265:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 10288265
4. Select your platform
5. Click **Search**
6. Download and install patch #10288265

To install patch #12837214:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 12837214
4. Select your platform
5. Click **Search**
6. Download and install patch #12837214

After applying the patches, launch the ODI Installer:

1. Go to **Topology**.
2. Go to **Physical Architecture**.
3. Find the **XML technologies** and expand it.

   You should see data sources for all DVM's used in your ODI flows.
4. Select each DVM data source.
5. Go to the **JDBC** tab.
6. Append this to the end of the URL "*&back_compat_specific_keywords=true*"
7. Test the data source to make sure the connection is successful.
8. Save your changes.

For a screenshot of this screen in ODI Installer, see Appendix B, "Oracle Data Integrator Screen".

28.2 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

28.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 28–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

28.2.2 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 28–2 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 11.5 release.
E-Business Suite Host Name	Specifies the fully qualified system 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 _____

28.2.3 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 28–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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.

28.2.4 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 28–4 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Host name	Specifies the fully qualified system name of the Siebel CRM application. Example: `example1.corp.oracle.com`. Siebel Host name 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 _____.
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 11.5 release. **Note:** See My Oracle Support for the latest updates to supported versions.

28.2.5 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 28–5 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	Specifies the system 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 _____

28.2.6 Oracle Data Integrator Access Details Screens

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

Table 28–6 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 must have this location to configure ODI artifacts during the install. It is recommended to choose this location in the same server where the ODI software runs. Path for Exported DVMs is _____

28.2.7 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 28–7 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_____

Table 28–7 (Cont.) Oracle Data Integrator Master Repository Details Screen Fields

Field	Description
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 _____

28.2.8 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 28–8 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 used for other work repositories. ODI Work Repository ID is: _____

28.3 Configuring and Deploying Siebel CRM to OIC

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

28.3.1 Configuring 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 DCW.

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 DCW.
3. Click **Next.**

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

28.3.1.1 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**.

28.3.1.2 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.**

28.3.1.3 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.**

28.3.1.4 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.**

28.3.1.5 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.**

28.3.1.6 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.**

28.3.1.7 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.**

28.3.1.8 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.**

28.3.1.9 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 28.3.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

28.3.2 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.

28.3.3 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 28–9 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`
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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

28.4 Performing Postdeployment Configurations

This section discusses the postdeployment configurations for Siebel CRM to OIC Integration. This section includes the following:

- Section 28.4.1, "Associating the Oracle Data Integrator Console with the Work Repository"
- Section 28.4.2, "Populating the COMPENSATION_ORGANIZATION_ID Cross-Reference Manually"
- Section 28.4.3, "Creating Siebel Views"

28.4.1 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, see *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*, "Creating a Repository Connection" in "Performing Administrative Operations."

28.4.2 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 28–10 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, see *Oracle Fusion Middleware Developer's Guide for Oracle SOA Suite*, "Populating Cross-Reference Tables."

28.4.3 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**.

28.5 Verifying Deployment

To verify the Siebel CRM to OIC deployment:

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 user name 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 Implementation Guide*.

28.6 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 28–11 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 37, "Uninstalling Oracle AIA".

29

Configuring and Deploying the Lead to Order: CRM OD - EBS PIP

This chapter discusses how to configure and deploy the Oracle Lead to Order Integration Pack for Oracle CRM On Demand and Oracle E-Business Suite (Lead to Order: CRM OD - EBS PIP).

This chapter includes the following sections:

- Section 29.1, "Deployment Configuration Wizard"
- Section 29.2, "Performing Predeployment Configurations"
- Section 29.3, "Configuring and Deploying the Lead to Order: CRM OD - EBS PIP"
- Section 29.4, "Performing Postdeployment Configurations"
- Section 29.5, "Verifying Deployment"
- Section 29.6, "Undeploying the Lead to Order: CRM OD - EBS PIP"

29.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

29.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 29–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 29–1 (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.

29.1.2 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 29–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Version	This is the version of the E-Business Suite application.
E-Business Suite Host Name	Specifies the fully qualified system 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 _____
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. To find this value: 1. Find the Responsibility **Workflow Administrator Web Applications**. 2. Navigate to **Administrator Workflow**, **Home**, **Administration**. 3. View section **Business Event Local System**. 4. Find the value in the field **System Name** Workflow Business Event System Name is _____

29.1.3 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 29–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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 _____
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.

29.1.4 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 29–4 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 equals 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 29–4 (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 equals 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'

29.1.5 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, 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 29–5 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".

29.2 Performing Predeployment Configurations

You must modify transaction properties and configure the JVM parameters to complete the PIP installation.

To modify 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 **Oracle Enterprise Manager Fusion Middleware Control**.
   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 `240`.
   e. Click **Apply**.

To configure JVM parameters

1. Navigate to <Middleware home>/user_projects/domains/<domain_name>/bin.
2. For Linux, update the following parameters in the **setDomainEnv.sh** file. Search for the string **USER_MEM_ARGS** and modify as necessary.

   USER_MEM_ARGS="-Xms4096m -Xmx4096m -XX:PermSize=512m -XX:MaxPermSize=512m -Xmn2048m -XX:-UseAdaptiveSizePolicy -XX:+PrintGCDateStamps -verbose:gc -XX:+UseParallelGC -XX:ParallelGCThreads=2 -XX:SurvivorRatio=6"

   For Windows, update the following parameters in the **setDomainEnv.cmd** file. Search for the string **USER_MEM_ARGS** and modify as necessary.

   USER_MEM_ARGS="-Xms4096m -Xmx4096m -XX:PermSize=512m -XX:MaxPermSize=512m -Xmn2048m -XX:-UseAdaptiveSizePolicy -XX:+PrintGCDateStamps -verbose:gc -XX:+UseParallelGC -XX:ParallelGCThreads=2 -XX:SurvivorRatio=6"

   Note: The values specified are baseline values. You can modify the values to improve performance. Your server class machines must have 8GB RAM or more of available space for the above memory settings to be valid.

   If the above parameters are not present in those files, then add the above parameters under the string "# IF USER_MEM_ARGS the environment variable is set".

For more information, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Tuning Java Virtual Machines (JVMs)".

29.3 Configuring and Deploying the Lead to Order: CRM OD - EBS PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

29.3.1 Configuring 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 DCW.

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. Restart 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 DCW.
6. Click **Next.**
7. Select the **Lead to Order: CRM OD - EBS PIP**
8. Click **Next**.

29.3.1.1 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**.

29.3.1.2 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.**

29.3.1.3 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.**

29.3.1.4 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.**

29.3.1.5 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.**

29.3.1.6 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 29.3.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

29.3.2 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 data source 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, see the *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, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Deploying AIACompositeScheduler", "Deploying AIACompositeScheduler on Cluster Server."

29.3.3 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 29–6 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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack* "Generating Deployment Plans and Deploying Artifacts".

29.4 Performing Postdeployment Configurations

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

- Section 29.4.1, "Populating the inventory_location_id cross-reference Table"
- Section 29.4.2, "Defining the Application Context for E-Business Suite Service Calls"
- Section 29.4.3, "Updating the Oracle E-Business Suite Database"
- Section 29.4.4, "Updating the AIA Configuration Properties"
- Section 29.4.5, "Configuring Session Pool Manager"

29.4.1 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 29–1 Cross-References 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 29–1:

- *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 must create inventory_location_id records for multiple operating units, 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 29–2 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 29–2, *organization_id* is the organization ID of the operating unit for which you created the cross-reference.

29.4.2 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 operating 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 privileges 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.

29.4.3 Updating the Oracle E-Business Suite Database

In the Oracle E-Business Suite database, run the following command:

Example 29–3 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;
/
```

29.4.4 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

29.4.5 Configuring Session Pool Manager

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

29.5 Verifying Deployment

To verify the Lead to Order: CRM OD - EBS PIP deployment:

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. Navigate 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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).

b. On the left panel under **Farm_soa_domain**, **SOA**, **soa-infra (soa_server1)**, **Default,** click **AIASessionPoolManager**.

c. Click **Test**.

d. Enter **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.**

You should see a successful initialization response message. For more information and troubleshooting steps, see *Oracle Application Integration Architecture Process Integration Pack Utilities Guide*, "Session Pool Manager".

4. Confirm that the Lead to Order: CRM OD - EBS PIP services were installed.

a. Navigate to the Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- 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 29–7 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

Table 29–7 (Cont.) Error Handler Configuration for Lead to Order: CRM OD - EBS PIP

Service Name	System Code	Error Type	Error Ext Handler
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

29.5.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 29–8 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
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 29–9 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 29–10 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
CRMOnDemandErrorHandlerService	AccountWSEndPointCRMOnDemand	oracle/aia_wss10_saml_token_client_policy_OPT_ON
CRMOnDemandErrorHandlerService	AIAErrorTaskAdministrationProcess	oracle/aia_wss10_saml_token_client_policy_OPT_ON

Table 29–10 (Cont.) Saml Opt On Client Policy Attachments for Lead to Order: CRM OD - EBS PIP

Composite	Reference	Client Policy
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	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
CRMOnDemandIntegrationEventProcessor	ContactCRMODRoutingService	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
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 29–11 Wss User Name 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*, "Working with Security."

For PIP implementation, see *Oracle Application Integration Architecture Oracle Lead to Order Integration Pack for Oracle CRM On Demand and Oracle E-Business Suite Implementation Guide*.

29.6 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 29–12 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 29–13 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 29–14 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 37, "Uninstalling Oracle AIA".

30

Configuring and Deploying the LSP Financial Mgmt: OTM - EBS PIP

This chapter discusses how to configure and deploy the Oracle Financial Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite (LSP Financial Mgmt: OTM - EBS PIP).

This chapter includes the following sections:

- Section 30.1, "Deployment Configuration Wizard"
- Section 30.2, "Configuring and Deploying the LSP Financial Mgmt: OTM - EBS PIP"
- Section 30.3, "Performing Postdeployment Configurations"
- Section 30.4, "Verifying Deployment"
- Section 30.5, "Undeploying the LSP Financial Mgmt: OTM - EBS PIP"

30.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

30.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 30–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 30–1 (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.

30.1.2 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 30–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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.

30.1.3 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 30–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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 _____

Table 30–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
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.

30.1.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 30–4 Oracle OTM Server Details Screen Fields

Field	Description
OTM Host name	Specifies the system name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Host name 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 user name 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.example.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 _____

30.1.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 30–5 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	Specifies the system 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 _____

Table 30–5 (Cont.) Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Username	This is the Database user name 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 _____

30.2 Configuring and Deploying the LSP Financial Mgmt: OTM - EBS PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

30.2.1 Configuring 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 DCW.

> **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. Restart 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 DCW.
6. Click **Next.**
7. Select the **LSP Financial Mgmt: OTM - EBS PIP**
8. Click **Next**.

30.2.1.1 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**.

30.2.1.2 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.**

30.2.1.3 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.**

30.2.1.4 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.**

30.2.1.5 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.**

30.2.1.6 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 30.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

30.2.2 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.

30.2.3 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 30–6 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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

30.3 Performing Postdeployment 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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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 the **Services and References** section. (use the security exceptions table in the Section 30.4.1, "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.

30.4 Verifying Deployment

To verify the LSP Financial Mgmt: OTM - EBS PIP deployment:

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).

b. Log in with the server admin user name. For access details, contact the system administrator.

c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:

- 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
- 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 Oracle Enterprise Manager Fusion Middleware Control 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 Oracle Enterprise Manager Fusion Middleware Control 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, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack* "Creating Routing Rules".

30.4.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 30–7 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 30–8 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*, "Working with Security."

For PIP implementation, see *Oracle Application Integration Architecture Oracle Financial Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite Implementation Guide*.

30.5 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 30–9 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`
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 37, "Uninstalling Oracle AIA".

31

Configuring and Deploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

This chapter discusses how to configure and deploy the Oracle Order Management Integration Pack for Oracle Transportation Management, Oracle E-Business Suite, and Siebel CRM (LSP Order Mgmt: OTM - EBS - Siebel CRM PIP).

This chapter includes the following sections:

- Section 31.1, "Deployment Configuration Wizard"
- Section 31.2, "Configuring and Deploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"
- Section 31.3, "Performing Postdeployment Configurations"
- Section 31.4, "Verifying Deployment"
- Section 31.5, "Undeploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP"

31.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

31.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 31–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 31–1 (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.

31.1.2 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 31–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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.

31.1.3 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 31–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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 _____

Table 31–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
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.

31.1.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 31–4 Oracle OTM Server Details Screen Fields

Field	Description
OTM Host name	Specifies the system name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Host name 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 user name 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.example.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 _____

31.1.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 31–5 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	Specifies the system 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 _____

Table 31–5 (Cont.) Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Username	This is the Database user name 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 _____

31.1.6 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 31–6 Siebel CRM Server Details Screen Fields

Field	Description
Siebel Hostname	Specifies the system name. For example: `rws602rems.example.com`. To find the value, contact your database administrator. Siebel Hostname is _____
Siebel HTTP Port	Specifies the Siebel application port. For example: `80`. To find the value, contact your administrator. Siebel HTTP Port is _____
Siebel Internet Protocol	Specifies the Siebel host internet protocol. For example: http://. To find the value, contact your administrator. Siebel host internet protocol is _____ **Note**: Our internal environments are always on http://. The default value is https// and must be changed for Siebel web services and Session Pool Manager services to work.
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 _____
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.example.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 11.5 release.
Siebel Language	This is the language used by the Siebel application. For example, enu. To find the value, contact your administrator. Siebel Language is _____

31.1.7 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 31–7 Siebel CRM Database Details Screen Fields

Field	Description
Siebel Database Host	Specifies the system 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 _____

31.2 Configuring and Deploying the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

31.2.1 Configuring 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 DCW.

> **Note:** If you are harvesting content to OER, perform the first three steps. If not, 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. Restart 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 DCW.

6. Click **Next.**
7. Select the **LSP Order Mgmt: OTM - EBS - Siebel CRM PIP**
8. Click **Next**.

31.2.1.1 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**.

31.2.1.2 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.**

31.2.1.3 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.**

31.2.1.4 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.**

31.2.1.5 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.**

31.2.1.6 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.**

31.2.1.7 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.**

31.2.1.8 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 31.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

31.2.2 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.

31.2.3 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 31–8 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`

> **Note:** In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

31.3 Performing Postdeployment 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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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 the **Services and References** section. (use the security exceptions table in the Section 31.4.1, "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.

31.4 Verifying Deployment

To verify the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP deployment:

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - CustomerPartyEBSV2
   - CustomerPartyResponseEBSV2
   - ItemEBSV2
   - ItemResponseEBSV2
   - QueryResponsibilityEbizAdapter
   - QueryTransportationSalesOrderItineraryListLogisticsProvABCSImpl
   - QueryTransportationSalesOrderItineraryListSiebelReqABCSImpl
   - SyncAccountSiebelAggregatorAdapter
   - SyncAccountSiebelReqABCSImpl
   - SyncAcctSiebelAggrEventConsumer
   - SyncAddressSiebelAggregatorAdapter
   - SyncBPSiebelAggregatorAdapter
   - SyncContactSiebelAggregatorAdapter
   - SyncCustomerPartyEbizJMSConsumerV1
   - SyncCustomerPartyJMSProducerV1
   - 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 Oracle Enterprise Manager Fusion Middleware Control 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, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Creating Routing Rules".

31.4.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 31–9 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 31–10 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 31–11 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 31–12 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*, "Working with Security."

For PIP implementation, see *Oracle Application Integration Architecture Order Management Integration Pack for Oracle Transportation Management, Oracle E-Business Suite and Siebel CRM Implementation Guide*

31.5 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 31–13 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 37, "Uninstalling Oracle AIA".

32

Configuring and Deploying the LSP Driver Mgmt: OTM - EBS PIP

This chapter discusses how to configure and deploy the Oracle Driver Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite (LSP Driver Mgmt: OTM - EBS PIP).

This chapter includes the following sections:

- Section 32.1, "Deployment Configuration Wizard"
- Section 32.2, "Configuring and Deploying the LSP Driver Mgmt: OTM - EBS PIP"
- Section 32.3, "Performing Postdeployment Configurations"
- Section 32.4, "Verifying Deployment"
- Section 32.5, "Undeploying the LSP Driver Mgmt: OTM - EBS PIP"

32.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

32.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 32–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____

Table 32–1 (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.

32.1.2 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 32–2 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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 value is `12.1.2`. Other versions are not supported in the 11.5 release.

32.1.3 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 32–3 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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 _____

Table 32–3 (Cont.) Oracle E-Business Suite Database Details Screen Fields

Field	Description
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.

32.1.4 Oracle OTM Server Details Screen

Use this screen to enter details related to your OTM server instance.

The screen contains the following fields:

Table 32–4 Oracle OTM Server Details Screen Fields

Field	Description
OTM Host name	Specifies the system name of the OTM application. For example: `example1.corp.oracle.com`. To find the value, contact your administrator. OTM Host name 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 user name 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.example.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 _____

32.1.5 Oracle OTM Database Details Screen

Use this screen to enter details related to your OTM database instance.

The screen contains the following fields:

Table 32–5 Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Host	Specifies the system 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 _____

Table 32–5 (Cont.) Oracle OTM Database Details Screen Fields

Field	Description
OTM Database Username	This is the Database user name 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 _____

32.2 Configuring and Deploying the LSP Driver Mgmt: OTM - EBS PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

32.2.1 Configuring 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 DCW.

> **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. Restart 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 DCW.
6. Click **Next.**
7. Select the **LSP Driver Mgmt: OTM - EBS PIP**
8. Click **Next**.

32.2.1.1 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**.

32.2.1.2 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.**

32.2.1.3 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.**

32.2.1.4 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.**

32.2.1.5 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.**

32.2.1.6 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 32.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

32.2.2 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.

32.2.3 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 32–6 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/FleetDriverManagementSupple mentaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>/pips/FleetDriverManagement/DeploymentPlans/FleetDriverManagementCondit ionalPolicy.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\FleetDriverManagementSupple mentaryDP.xml -DDeploymentPolicyFile=<AIA_ HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagementCondit ionalPolicy.xml -l <AIA_ HOME>\pips\FleetDriverManagement\DeploymentPlans\FleetDriverManagement.log

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

32.3 Performing Postdeployment Configurations

This section discusses post deployment configurations for LSP Driver Mgmt: OTM - EBS PIP. The section includes:

- Section 32.3.1, "Configuring Time Zone Property"
- Section 32.3.2, "Migrating from AIA 2.x to AIA 11.5"
- Section 32.3.3, "Creating New Csf-Key and Configuring Flows to Use Csf-Key"

32.3.1 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.

   Possible values:

   - *PST*, *IST* and so on. (OR)
   - *-07:00*, *+05:30* and so on.
4. Update MetaData.
5. Reload from the AIA page (http://< server name >: < port number >/AIA).

32.3.2 Migrating from AIA 2.x to AIA 11.5

If you are migrating from an earlier version to 11.5, then ensure the following:

The last number value for the sequence DR_CAL_EVENT_ID created in "<AIA_INSTANCE>_AIA" database user in the 11.5 version should be set to the same value as in the 10g version. In 10g, this sequence is 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

32.3.3 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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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. Log in to Oracle Enterprise Manager Fusion Middleware Control (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 32.4.1, "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.

32.4 Verifying Deployment

To verify the LSP Driver Mgmt: OTM - EBS PIP deployment:

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
   - 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 Oracle Enterprise Manager Fusion Middleware Control 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, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Creating Routing Rules".

32.4.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 32–7 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 32–8 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
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*, "Working with Security."

For PIP implementation, see *Oracle Application Integration Architecture Oracle Driver Management Integration Pack for Oracle Transportation Management and Oracle E-Business Suite Implementation Guide*.

32.5 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 32–9 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 37, "Uninstalling Oracle AIA".

33

Configuring and Deploying Value Chain Planning Base Pack Integration

This chapter discusses how to configure and deploy the Oracle Value Chain Planning Integration Base Pack (VCP Base Pack integration).

This chapter includes the following sections:

- Section 33.1, "Configuring Oracle Data Integrator"
- Section 33.2, "Deployment Configuration Wizard"
- Section 33.3, "Configuring and Deploying VCP Base Pack Integration"
- Section 33.4, "Performing Postdeployment Configurations"
- Section 33.5, "Verifying Deployment"
- Section 33.6, "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.

33.1 Configuring Oracle Data Integrator

To run AIA Pre-Built Integrations 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.

33.1.1 Creating Oracle Data Integrator Repositories

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

You can use an existing work repository if 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 another repository and not to use 1 or 778 as the Work Repository ID.

When you run the DCW, 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 *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*, "Administering the Oracle Data Integrator Repositories."

33.1.2 Performing Postinstallation Configurations for ODI

Perform the following steps to apply the required patches to your ODI 11.1.1.5.0.

To install prerequisite installer patch #10288265:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 10288265
4. Select your platform
5. Click **Search**
6. Download and install patch #10288265

To install patch #12837214:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 12837214
4. Select your platform
5. Click **Search**
6. Download and install patch #12837214

After applying the patches, launch the ODI Installer:

1. Go to **Topology**.
2. Go to **Physical Architecture**.
3. Find the **XML technologies** and expand it.

   You should see data sources for all DVM's used in your ODI flows.
4. Select each DVM data source.
5. Go to the **JDBC** tab.
6. Append this to the end of the URL "*&back_compat_specific_keywords=true*"
7. Test the data source to make sure the connection is successful.
8. Save your changes.

For a screenshot of this screen in ODI Installer, see Appendix B, "Oracle Data Integrator Screen".

33.2 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

33.2.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 33–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

33.2.2 JD Edwards EnterpriseOne Inbound Path

Table 33–2 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 system or on a shared folder on a remote system. JD Edwards EnterpriseOne Inbound Path is _____

33.2.3 JD Edwards EnterpriseOne Outbound Path

Table 33–3 JD Edwards EnterpriseOne Outbound Path Screen

Field	Description
JD Edwards EnterpriseOne Outbound Path	The location where files from JDE into ODI/APS are placed. This location can be on the same system or on a shared folder on a remote system. JD Edwards EnterpriseOne Outbound Path is _____

For more information on directory structures, see the *Oracle Value Chain Planning Integration Base Pack Implementation Guide*, "ODI Directory Structure".

33.2.4 Demantra Inbound Path

Table 33–4 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 system or on a shared folder on a remote system. Demantra Inbound Path is _____

33.2.5 Demantra Outbound Path

Table 33–5 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 system or on a shared folder on a remote system. Demantra Outbound Path is _____

33.2.6 APS Database Connection Details

Table 33–6 APS Database Connection Details

Field	Description
APS Database Host	Specifies the system 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`
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 _____

33.2.7 APS Inbound Path

Table 33–7 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 system or on a shared folder on a remote system. The location must be the same as the system where the APS database is hosted. APS Inbound Path is _____

33.2.8 APS Outbound Path

Table 33–8 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 system or on a shared folder on a remote system. The location must be the same as the system where the APS database is hosted. APS Outbound Path is _____

33.2.9 Oracle Data Integrator Access Details Screen

Use this screen to enter details to access Oracle Data Integrator.

The screen contains the following fields:

Table 33–9 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 _____
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 _____

33.2.10 Oracle Data Integrator Master Repository Details

You must set up an ODI Master Repository before 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 configured, field values in the screen populate automatically.

The screen contains the following fields:

Table 33–10 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_____

33.2.11 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 configured, field values in the screen populate automatically.

The screen contains the following fields:

Table 33–11 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_____

33.3 Configuring and Deploying VCP Base Pack Integration

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

33.3.1 Configuring 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 DCW.

> **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 <Middleware Home>/user_projects/domains/soa_domain/bin/ and open **setDomainEnv.sh** for Linux based systems and **setDomainEnv.bat** for Microsoft Windows.

   Middleware Home is the directory where Oracle Middleware is installed.

2. Replace WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**false**" with WLS_JDBC_REMOTE_ ENABLED="-Dweblogic.jdbc.remoteEnabled=**true**".

3. Restart 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 DCW.

6. Click **Next.**
7. Select **VCP Base Pack Integration**
8. Click **Next**.

33.3.1.1 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**.

33.3.1.2 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**.

33.3.1.3 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**.

33.3.1.4 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**.

33.3.1.5 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.**

33.3.1.6 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.**

33.3.1.7 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.**

33.3.1.8 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.**

33.3.1.9 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.**

33.3.1.10 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.

33.3.1.11 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.**

33.3.1.12 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.**

33.3.1.13 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 33.3.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.

4. Click **Finish** to close the DCW.

33.3.2 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.

33.3.3 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 33–12 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

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack* "Generating Deployment Plans and Deploying Artifacts".

33.4 Performing Postdeployment Configurations

This section discusses postdeployment configurations for the VCP Base Pack Integration. This section includes:

- Section 33.4.1, "Configuring Environment Variables"
- Section 33.4.2, "Verifying Directory Structure"

- Section 33.4.3, "Launching the VCP Base Pack Integration Agent"
- Section 33.4.4, "Enabling AIA Error Handling (Optional)"
- Section 33.4.5, "Updating the DTD files"
- Section 33.4.6, "Applying Patch for Compatibility with ODI 11.1.1.5.0"

33.4.1 Configuring Environment Variables

Configure the following environment variable:

Table 33–13 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 *Oracle Value Chain Planning Integration Base Pack Implementation Guide*, "Configuring ODI Variables".

33.4.2 Verifying Directory Structure

Before using VCP Base Pack Integration, a system administrator must verify if the directories exist according to the directory structure.

For more information, see the *Oracle Value Chain Planning Integration Base Pack Implementation Guide*, "Setting Up VCP Base Pack Integration".

33.4.3 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 deploys.

   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, see *Oracle Fusion Middleware Installation Guide for Oracle Data Integrator*, "Installing Oracle Data Integrator". Follow the installation instructions for Java EE.
6. Return to the **OracleDIAgent** screen in the **Topology Manager** and click **Test**.

33.4.4 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 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 and so on are to be provided here.
6. Failure: This step is to purposefully fail the Scenario (APS depends on 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.

33.4.5 Updating the DTD files

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 are placed; the JDE E1 Output directory.
2. Copy DeploymentPlan.dtd, DetailedProductionPlan.dtd, MasterProductionPlan.dtd, PurchasePlan.dtd to the APS Output Directory.

   You must copy and populate the spreadsheet contained in the self extracting file E1VCPUDD.exe. E1VCPUDD.exe resides in <*PIP install directory*>/html/supplychain/US/.

   It is a self-extracting file that extracts the zip file containing the Excel template for user-defined parameters. The spreadsheet in this file should be copied into the JDE E1 Output directory. Once the data is populated in the spreadsheet, run the Export to File macro to export the spreadsheet data.

Note: You can check the **Physical Topology** under **Files** and **XML** to see the directory names where the DTDs should be available.

33.4.6 Applying Patch for Compatibility with ODI 11.1.1.5.0

To achieve compatibility between the VCP Base Pack Integration and ODI 11.1.1.5.0, you must apply patch 12839129 in the ODI work repository.

To apply patch 12839129:

1. Search for patch 12839129 on My Oracle Support [https://support.oracle.com/]
2. Download and extract the patch to a folder.
3. Follow the instructions on the *Readme*.txt file to apply the patch in the ODI work repository.

33.5 Verifying Deployment

To verify the VCP Base Pack Integration deployment:

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.

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.

33.5.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 33–14 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 33–15 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*, "Working with Security."

For PIP Implementation, see *Oracle Value Chain Planning Integration Base Pack Implementation Guide*.

33.6 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 33–16 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 37, "Uninstalling Oracle AIA".

34

Configuring and Deploying the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

This chapter discusses how to configure and deploy the Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne (Project Portfolio Management: Primavera P6-JDE E1 PIP).

This chapter includes the following sections:

- Section 34.1, "Deployment Configuration Wizard"
- Section 34.2, "Configuring and Deploying the Project Portfolio Management: Primavera P6 - JDE E1 PIP"
- Section 34.3, "Performing Postdeployment Configurations"
- Section 34.4, "Verifying Deployment"
- Section 34.5, "Undeploying the Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP"

34.1 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

34.1.1 PIP Server Details Screen

All artifacts associated with the PIP infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 34–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 34–1 (Cont.) PIP Server Details Screen Fields

Field	Description
Admin User	This value is the WebLogic admin user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

34.1.2 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 34–2 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 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 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 _____

34.1.3 Primavera P6 Server Details

Table 34–3 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 _____

Table 34–3 (Cont.) Primavera P6 Server Details Screen Fields

Field	Description
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 user name that you specify. The user name 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 _____

34.2 Configuring and Deploying the Project Portfolio Management: Primavera P6 - JDE E1 PIP

This section discusses the PIP configuration and deployment process. There are two steps:

1. Configure your PIP using the deployment DCW.
2. Deploy the PIP to the Fusion Middleware server.

34.2.1 Configuring 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 DCW.

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. Restart 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 DCW.
7. Click **Next.**

8. Select the **Project Portfolio Management: Primavera P6 - JDE E1 PIP**
9. Click **Next**.

34.2.1.1 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**.

34.2.1.2 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.**

34.2.1.3 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.**

34.2.1.4 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 34.2.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

34.2.2 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.

34.2.3 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 34–4 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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

34.3 Performing Postdeployment Configurations

If you have installed the 2.5 release of this PIP, and are now installing the 11.5 release, you must migrate data from 2.5 to 11.5. 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 file from 2.5 installation directory. For example: <aia_2.5_home>\config\
2. Paste the file in 11.5 installation directory. For example: <aia_11.5_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 Implementation Guide*, "Implementing the Project Management:Primavera - JDE E1 PIP", Setting Configuration Properties.

34.4 Verifying Deployment

To verify the Project Portfolio Management: Primavera P6 - JDE E1 PIP deployment:

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.

34.4.1 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. Log in to Oracle Enterprise Manager Fusion Middleware Control.
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 34–5 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 34–6 Wss User Name 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 34–7 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
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

Table 34–7 (Cont.) No Authentication Client Policy Attachments for Project Portfolio Mgmt: Primavera P6 - JDE E1 PIP

Composite	Reference	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*, "Working with Security."

For PIP implementation, see *Oracle Project Portfolio Management Integration Pack for Primavera P6 and JD Edwards EnterpriseOne Implementation Guide*.

34.5 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 34–8 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 37, "Uninstalling Oracle AIA".

35

Configuring and Deploying the Serialization and Tracking: OPSM - EBS integration

This chapter discusses how to configure and deploy Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite (Serialization and Tracking: OPSM - EBS).

This chapter includes the following sections:

- Section 35.1, "Configuring Oracle Data Integrator"
- Section 35.1.1, "Creating Oracle Data Integrator Repositories"
- Section 35.2, "Deployment Configuration Wizard"
- Section 35.3, "Configuring and Deploying the Serialization and Tracking: OPSM - EBS"
- Section 35.4, "Performing Postdeployment Configurations"
- Section 35.5, "Verifying Deployment"
- Section 35.6, "Undeploying Serialization and Tracking: OPSM - EBS"

35.1 Configuring Oracle Data Integrator

To run AIA Pre-Built Integrations 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.

35.1.1 Creating Oracle Data Integrator Repositories

You can use an existing master repository if 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 if 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 DCW, 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 *Oracle Fusion Middleware Developer's Guide for Oracle Data Integrator*, "Administering the Oracle Data Integrator Repositories."

35.1.2 Performing Postinstallation Configurations for ODI

Perform the following steps to apply the required patches to your ODI 11.1.1.5.0.

To install prerequisite installer patch #10288265:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 10288265
4. Select your platform
5. Click **Search**
6. Download and install patch #10288265

To install patch #12837214:

1. Access My Oracle Support [https://support.oracle.com]
2. Navigate to the **Patches & Updates** tab
3. In the **Patch Name or Number** field, write 12837214
4. Select your platform
5. Click **Search**
6. Download and install patch #12837214

After applying the patches, launch the ODI Installer:

1. Go to **Topology**.
2. Go to **Physical Architecture**.
3. Find the **XML technologies** and expand it.

   You should see data sources for all DVM's used in your ODI flows.
4. Select each DVM data source.
5. Go to the **JDBC** tab.
6. Append this to the end of the URL "*&back_compat_specific_keywords=true*"
7. Test the data source to make sure the connection is successful.
8. Save your changes.

For a screenshot of this screen in ODI Installer, see Appendix B, "Oracle Data Integrator Screen".

35.2 Deployment Configuration Wizard

The DCW 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 DCW. This action enables faster and error free configuration.

35.2.1 PIP Server Details Screen

All artifacts associated with the integration infrastructure components deploy to the PIP server. This screen contains the following fields:

Table 35–1 PIP Server Details Screen Fields

Field	Description
Admin Host Name	Specifies where the admin server resides. This can be a remote server or the same system where the AIA Pre-Built Integrations 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 user name. To find this value contact your WebLogic administrator. The Admin User is _____
Admin Password	This value is the WebLogic admin password. To find this value contact your WebLogic administrator. The password is _____
Managed Server	After you enter the Admin Host Name, Admin Port and Admin User, this field populates 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.

35.2.2 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 35–2 Oracle Pedigree and Serialization Manager Database Details Screen Fields

Field	Description
OPSM Database Host	Specifies the fully qualified system 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 _____
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 _____

35.2.3 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 35–3 Oracle E-Business Suite Server Details Screen Fields

Field	Description
E-Business Suite Host Name	Specifies the fully qualified system 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.

35.2.4 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 35–4 Oracle E-Business Suite Database Details Screen Fields

Field	Description
E-Business Suite Database Host	Specifies the system 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.

35.2.5 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 35–5 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 _____
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 must have 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 runs. Path for exported DVMs is _____

35.2.6 Oracle Data Integrator Master Repository Details Screen

You must set up an ODI Master Repository before 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 configured, field values in the screen populate automatically.

The screen contains the following fields:

Table 35–6 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 _____

35.2.7 Oracle Data Integrator Work Repository for Serialization and Tracking: OPSM - EBS Details Screen

You must set up an ODI Work Repository before 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 configured, field values in the screen populate automatically.

The screen contains the following fields:

Table 35–7 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 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 _____

35.3 Configuring and Deploying the Serialization and Tracking: OPSM - EBS

This section discusses the integration configuration and deployment process. There are two steps:

1. Configure your integration using the deployment DCW.
2. Deploy the integration to the Fusion Middleware server.

35.3.1 Configuring 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 DCW.

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. Restart 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 DCW.**
6. Click **Next.**
7. Select **Serialization and Tracking: OPSM - EBS**.
8. Click **Next**.

35.3.1.1 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**.

35.3.1.2 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.**

35.3.1.3 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.**

35.3.1.4 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.**

35.3.1.5 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.**

35.3.1.6 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.**

35.3.1.7 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.**

35.3.1.8 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 DCW and use it in future when you want to deploy the PIP. You can configure using the steps described in Section 35.3.2, "Configuring using the Response File". Click **Save Response File** 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 DCW displays the **Configuration Complete** screen.
4. Click **Finish** to close the DCW.

35.3.2 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.

35.3.3 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 35–8 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`
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`

Note: In Windows 2008, 2008 R2 and Vista, run the command prompt as an administrator (elevated mode). If the command prompt is invoked in normal mode, the PIPs are not displayed.

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 must modify and add new non native artifacts outside AIA Lifecycle Workbench.

For more information on deploying artifacts, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*, "Generating Deployment Plans and Deploying Artifacts".

35.4 Performing Postdeployment Configurations

This section discusses postdeployment configurations for the Serialization and Tracking: OPSM - EBS integration. The section includes:

- Section 35.4.1, "Configuring Environment Variables"
- Section 35.4.2, "Launching the Serialization and Tracking: OPSM - EBS Agent"
- Section 35.4.3, "Stopping the Serialization and Tracking: OPSM - EBS Agent"
- Section 35.4.4, "Configuring ODI Variables"
- Section 35.4.5, "Configuring Web Services for Serialization and Tracking: OPSM - EBS (Optional)"
- Section 35.4.6, "Verifying the Database Connection (Optional)"
- Section 35.4.7, "Configuring the Remote OPSM JMS Queue in Serialization and Tracking: OPSM - EBS (Required)"
- Section 35.4.8, "Configuring Cross Domain Security in Serialization and Tracking: OPSM – EBS (Required)"
- Section 35.4.9, "Maintaining Serialization and Tracking: OPSM - EBS"
- Section 35.4.10, "Adding File permissions"

35.4.1 Configuring Environment Variables

Configure the following environment variables:

Table 35–9 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`

35.4.2 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.

35.4.3 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).

35.4.4 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 35–10 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.
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 you want to regenerate.
4. Click **Regenerate** option.

5. Click **OK** twice.

35.4.5 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 Implementation Guide*.

35.4.6 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 appear, verify the connection information in the Definitions and JDBC tabs.
7. Repeat steps 1 - 6 for the following data sources:

- OracleEbizDS
- WorkRepDS

35.4.7 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 35–11 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**
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**.

35.4.8 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 must create one or more users and add them to the group CrossDomainConnectors. Typically, such a user is 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 **New** to create a 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 must specify a credential to be used by each user on each remote domain 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 must 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.

35.4.9 Maintaining Serialization and Tracking: OPSM - EBS

Serialization and Tracking: OPSM - EBS integration files are 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 35–12 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 must 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.

35.4.10 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

35.5 Verifying Deployment

To verify Serialization and Tracking: OPSM - EBS deployment:

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 Oracle Enterprise Manager Fusion Middleware Control (http://<server name>:<port number>/em/).
   b. Log in with the server admin user name. For access details, contact the system administrator.
   c. Expand **Farm_soa_domain**, **SOA**, **soa-infra**, **Default** and look for the following items:
      - 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 35–13 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 35–14 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 35–15 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 Notification 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

35.5.1 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 Oracle Enterprise Manager Fusion Middleware Control.

2. Navigate to **Weblogic domain, soa_domain**. In the window to the right, select the **WebLogic Domain**, 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.

      The **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.

      The **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 35–16 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 35–17 Saml or User Name 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*, "Working with Security."

For implementation, see *Oracle Serialization and Tracking Integration Pack for Oracle Pedigree and Serialization Manager and Oracle E-Business Suite Implementation Guide*.

35.6 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 35–18 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 37, "Uninstalling Oracle AIA".

Part IV

Upgrading Pre-Built Integrations

This part provides a general introduction to and the steps involved in upgrading Pre-Built Integrations.

This part contains the following chapter:

- Chapter 36, "Upgrading Pre-Built Integrations"

36

Upgrading Pre-Built Integrations

This chapter provides an overview of the Application Integration Architecture (AIA) upgrade process for the Pre-Built Integrations included in this release.

This chapter includes the following sections:

- Section 36.1, "Understanding AIA Upgrade"
- Section 36.2, "Upgrading Pre-Built Integrations"
- Section 36.3, "Upgrading AIA 11.4 Integrations"
- Section 36.4, "Upgrading AIA 3.1 PIPs and DIs"
- Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations"
- Section 36.6, "Performing Postupgrade Tasks for AIA"

Note: If you have AIA 2.4 or 2.5 installed, you cannot migrate or upgrade to AIA 11.1. You must install AIA 11.5 following the steps included in Chapter 3, "Installing Pre-Built Integrations"

To migrate customizations made to OOTB 2.4 or 2.5 artifacts, see the *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*

To migrate the 2.4 or 2.5 xref data to AIA 11.5, you must use the SOA xref utility. For more information, see the *Oracle Fusion Middleware Developer's Guide for Oracle SOA Suite*.

If you have modified or created custom services, custom DVMs and Xrefs, you must migrate these to AIA 11.5. For more information on migrating custom services, custom DVMs and Xrefs from AIA 2.4 or 2.5 to AIA 11.5, see the *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*

36.1 Understanding AIA Upgrade

The AIA upgrade process consists of three phases:

1. Upgrade newer AIA Release: the file-system (under $AIA_HOME) is updated with the latest content.
2. Redeploy previously deployed PIPs or DIs: update the server to the latest content by redeploying new PIPs or DIs from the new release.
3. Merge customizations and extensions: if you have customized services, you must merge the customizations.

After these three tasks are completed, you can configure and deploy new PIPs or DIs from the new release.

36.1.1 Upgrading the AIA Release

You must run the AIA Pre-Built Integrations Installer and point to the existing $AIA_HOME where the previous AIA version is installed. The AIA Pre-Built Integrations Installer:

1. Warns you when there is a previous release of AIA Pre-Built Integrations installed in $AIA_HOME.
2. Updates the PIP and DI content in $AIA_HOME with the latest version, after you back up AIA_HOME.

36.1.2 Redeploying previously deployed PIPs and DIs

After upgrading the release and merging your customizations, the previously deployed PIPs and DIs may be redeployed. FOR OOTB PIPs or DIs that require redeployment, see Section 36.2, "Upgrading Pre-Built Integrations", Section 36.3, "Upgrading AIA 11.4 Integrations" and Section 36.4, "Upgrading AIA 3.1 PIPs and DIs". The required upgrade scripts are included by the PIPs or DIs in this release.

For custom PIPs or DIs, you must identify the artifacts that require redeployment by rerunning the deployment plan of the specific PIP or DI or by redeploying the specific artifacts using a custom deployment plan.

36.1.3 Merging Customizations and Extensions

This applies if you have customized or extended the OOTB services or the PIPs or DIs. You must review the changes in this release and restore your customization and extensions after upgrading.

36.2 Upgrading Pre-Built Integrations

This section lists the tasks that you must perform to upgrade pre-built integrations.

36.2.1 AIA Upgrade Requirements

AIA Pre-Built Integrations Installer upgrades your 11.1 version PIPs and DIs to RV 11.5.

Note: Before upgrading Pre-Built Integrations 11.1 or AIA RV 3.1.1 PIPs or DIs, you must upgrade Foundation Pack to version 11.1.1.6.0, RUP patch 16301959 or later. For more information and instructions, see the *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation Pack*. If you are using an AIA Foundation Pack release that is earlier than 11.1.1.5.0, first upgrade to release 11.1.1.5.0 using the respective upgrade guides and then upgrade to version 11.1.1.6.0, RUP patch 16301959 or later

.

To upgrade from Foundation Pack to version 11.1.1.7.0, RUP patch 17553612 or later, you must manually run the upgrade scripts found in the *Oracle Fusion Middleware Installation and Upgrade Guide for Oracle Application Integration Architecture Foundation*

Pack. To upgrade individual PIPs or DIs, you must manually run the upgrade scripts after you upgrade Foundation Pack.

AIA Pre-Built Integrations Installer does not republish AIA content to the service registry when you upgrade from Foundation Pack 11.1.1.6.0 to 11.1.1.7.0. To upgrade the registry with AIA 11.1.1.6.0 content, you must manually republish.

AIA Foundation Pack 11.1.1.6.0 contains bug fixes in Core Infrastructure areas (CAVS, BSR, and so on). When you upgrade from 11.1.1.5.0 to 11.1.1.7.0, RUP patch 17553612 or later, these applications get redeployed. However, the upgrade does not have any impact because your data is preserved and all fixes are backward compatible.

Note: The upgrade of individual components is not supported in this release.

36.2.1.1 Software and Hardware Requirements

The system requirements for the upgrade (CPU/memory/disk space) are the same as those discussed under Hardware Requirements.

For more details on the software requirements for your specific PIPs or DIs, see Chapter 2, "Software Requirements".

36.2.2 Performing Preupgrade Tasks for Pre-Built Integrations

Before running the AIA Pre-Built Integrations Installer, you must:

1. Navigate a command prompt to the <AIA_HOME> parent directory: For example: "cd $AIA_HOME/..." (Go to the <AIA_HOME> directory and move up one directory higher).
2. Change the file permissions for the <AIA_HOME> directory and all subdirectories recursively to Read/Write/Execute for User/Group/Other owners. For example: chmod -R 777 <AIA_HOME>.
3. Back up your existing AIA_HOME before you start the 11.5 AIA Pre-Built Integrations Installer.

Note: These steps must be performed to upgrade every PIP or DI in Section 36.3, "Upgrading AIA 11.4 Integrations" and Section 36.4, "Upgrading AIA 3.1 PIPs and DIs".

Back up extended solution artifacts

Following the AIA extensibility model, as documented in the extensibility sections of the *Oracle Application Integration Architecture - Foundation Pack: Concepts and Technologies Guide* and the *Oracle Application Integration Architecture - Foundation Pack: Integration Developer's Guide*, you created or updated one or more of the following artifacts:

- Custom EBOs:

  These are AIA schema extensions performed on EBOs. Though the AIA Foundation Pack Installer automatically preserves these schema extensions, it is advisable to back up the custom directory. For example, all custom xsd files for core EBOs are accessed as http://hostname:port/AIAComponents/EnterpriseObjectLibrary/Core/Custom/EBO/

If you are using the oracle application server, you can access this folder from SOA_HOME/Apache/Apache/htdocs/AIAComponents/EnterpriseObjectLibrary/Core/Custom/EBO/

- Custom XSLTs:

  These are the extensions performed on the AIA Transformation style sheet. Foundation Pack does not contain any Extensible Stylesheet Language Transformations (XSLTs) for its components and utilities. Because the process content is delivered only in PIPs or DIs, you must manually back up the XSLTs if you have developed any for the custom integrations, and reapply them as a postupgrade step.

- Custom EBS WSDL:

  If you have customized any EBS WSDL that is delivered or shipped with AIA Foundation Pack, you must back it up and restore it manually as a postupgrade step

36.2.2.1 Performing Preupgrade Tasks for Product MDM 11.1

Before you upgrade the Product MDM pre-built integration from PIP version 11.1 to 11.2, you must apply the patch 16367095 on Product MDM PIP 11.1 if not applied.

36.2.2.2 Performing Preupgrade Tasks for Design to Release: Agile - EBS 11.2

Before you upgrade the Design to Release: Agile - EBS pre-built integration from PIP version 11.2 to 11.3, you must apply the roll-up patch 16318283: AGILE TO EBIZ ROLLUP #2 on Design to Release: Agile - EBS PIP 11.2 if not applied.

36.2.2.3 Performing Preupgrade Tasks for Design to Release: Agile - EBS 11.1

Before you upgrade the Design to Release: Agile - EBS pre-built integration from PIP version 11.1 to 11.3, you must apply the roll-up patch 15931887: AGILE TO EBIZ ROLLUP #3 on Design to Release: Agile - EBS PIP 11.1 if not applied.

36.2.3 Performing Upgrade Process for Pre-Built Integrations

Launching the AIA Pre-Built Integrations Installer

- To launch AIA Pre-Built Integrations Installer:

1. Navigate to **aiapip/Disk1**.
2. Follow the launch instructions for your platform.

Table 36–1 Launch Instructions for AIA Pre-Built Integrations Installer

Platform	To launch the AIA Pre-Built Integrations Installer
Linux x86 Solaris SPARC (64-bit) IBM AIX Based Systems (64-bit) HP-UX 11i (64 bit)	At the command line prompt, enter: `./runInstaller -invPtrLoc <AIA_HOME>/oraInst.loc -jreLoc <location of the jre specific to your operating system. This directory should have /bin/java>`
Microsoft Windows (32-bit)	Double-click setup.exe

3. Click **Next**.

36.2.4 Choosing the Existing Home Directory

- To choose the home directory where the existing version of Pre-Built Integrations is installed:

1. Specify the home directory of your existing AIA implementation.

> **Note:** Provide the directory where Foundation Pack 11.1.1.6.0, RUP patch 16301959 or later was installed. The path should be available in the list. When you select the current home directory, AIA Pre-Built Integrations Installer disables the rest of the options in the screen and displays the information related to AIA (product name and version number) that is in the directory.

2. Click **Next**.

36.2.5 Running the Directory Selection and Upgrade Process

- To run the directory selection and upgrade process:

1. On the **Summary** screen, review the summary of upgrade information.

   The summary screen provides information about the existing AIA Pre-Built Integrations installation.

2. Click **Install**. This upgrades the Pre-Built Integrations version.

   PIP- and DI-related files get copied to the specified location. You must manually execute the PIP or DI upgrade scripts to complete the upgrade.

36.3 Upgrading AIA 11.4 Integrations

> **Note:** The integrations that are not listed in this section do not require updates because the contents have not changed.

This section discusses the upgrade process for AIA 11.4 integrations.

36.3.1 Upgrading Product MDM: Base Pack

To upgrade the Product MDM: Base Pack pre-built integration from PIP version 11.1 to 11.2, perform the following task discussed below:

36.3.1.1 Running Upgrade Scripts for Product MDM: Base Pack

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 <AIAHOME>/pips/MDMProductPIM/upgrade/11.2 and run the deployment commands for your platform.

Table 36–2 Deployment Commands for Product MDM: Base Pack

Platform	Deployment Command
Linux	sh deployPIM.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	deployPIM.bat

36.3.1.2 Performing Postupgrade Tasks for Product MDM: Base Pack

Configure the endpoint URLs for Oracle PIM web services as described in Section 15.5.1, "Configuring Endpoint URLs for Oracle PIM Web Services" of this guide.

36.3.2 Upgrading Product MDM: E-Business Suite

To upgrade the Product MDM: E-Business Suite pre-built integration from PIP version 11.1 to 11.2, perform the following task discussed below:

36.3.2.1 Running Upgrade Scripts for Product MDM: E-Business Suite

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 <AIAHOME>/pips/MDMProductEbiz/upgrade/11.2 and run the deployment commands for your platform.

Table 36–3 Deployment Commands for Product MDM: E-Business Suite

Platform	Deployment Command
Linux	sh deployEbiz.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	deployEbiz.bat

36.3.3 Upgrading Product MDM: Siebel CRM

To upgrade the Product MDM: Siebel CRM pre-built integration from PIP version 11.1 to 11.2, perform the following task discussed below:

36.3.3.1 Running Upgrade Scripts for Product MDM: Siebel CRM

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 <AIAHOME>/pips/MDMProductSiebel/upgrade/11.2 and run the deployment commands for your platform.

Table 36–4 Deployment Commands for Product MDM: Siebel CRM

Platform	Deployment Command
Linux	sh deploySiebel.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	deploySiebel.bat

36.3.3.2 Performing Postupgrade Tasks for Product MDM: Siebel CRM

In item sync with pricelists scenario, SyncItemListPIMReqABCS service waits for a response. The response from the ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl service is sent to the requester through CommunicationsPriceListResponseEBSV2. Therefore, after you deploy the Siebel CRM services, you must update the following integration services:

- ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl
- SyncItemCompositionListSiebelCommsProvABCSImpl

To update the ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl service:

1. Edit the AIAConfigurationProperties.xml file that is located in <AIA_INSTANCE>/AIAMetaData/config.
2. Ensure that the following properties are listed in the AIAConfigurationProperties.xml file:
   - <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.Address">http://**HOST_NAME:PORT_NAME**/soa-infra/services/default/CommunicationsPriceListResponseEBSV2/CommunicationsPriceListResponseEBSV2_ep</Property>
   - <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.PortType">{http://xmlns.oracle.com/EnterpriseServices/Core/PriceList/V2}CommunicationsPriceListResponse</Property>
   - <Property name="EBSOverride.CommunicationsPriceListResponseEBS.SyncPriceListListResponse.ServiceName">{http://xmlns.oracle.com/EnterpriseServices/Core/PriceList/V2}CommunicationsPriceListResponse</Property>

To update the SyncItemCompositionListSiebelCommsProvABCSImpl service:

1. Edit the AIAConfigurationProperties.xml file that is located in <AIA_INSTANCE>/AIAMetaData/config.
2. Ensure that the following properties are listed in the AIAConfigurationProperties.xml file:
   - <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.Address">http://**HOST_NAME:PORT_NAME**/soa-infra/services/default/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>

- <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.PortType">{http://xmlns.oracle.com/ABCSImpl/Siebel/Industry/Comms/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/V1}ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>
- <Property name="EBSOverride.CommunicationsItemCompositionResponseEBSV1.SyncItemCompositionListResponse.ServiceName">{http://xmlns.oracle.com/ABCSImpl/Siebel/Industry/Comms/ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl/V1}ProductOptimizedSyncPriceListListSiebelCommsProvABCSImpl</Property>

36.3.3.2.1 Update Product.Source.PIP Property Value To update the Product.Source.PIP property value:

1. Edit the **AIAConfigurationProperties.xml** file located in <AIA_INSTANCE>/AIAMetaData/config.
2. Locate the `Product.Source.PIP` property and change the value as follows:

   From: `<Property name="Product.Source.PIP">O2C</Property>`

   To: `<Property name="Product.Source.PIP">MDM</Property>`

36.3.4 Upgrading Product MDM: Routing Rules

To upgrade the Product MDM: Routing Rules pre-built integration from PIP version 11.1 to 11.2, perform the following task discussed below:

36.3.4.1 Running Upgrade Scripts for Product MDM: Routing Rules

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 <AIAHOME>/pips/MDMProduct/upgrade/11.2 and run the deployment commands for your platform.

Table 36–5 Deployment Commands for Product MDM: Routing Rules

Platform	Deployment Command
Linux	sh deployEBS.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	deployEBS.bat

36.3.5 Upgrading Design to Release: Agile - EBS

Upgrade the Design to Release: Agile - EBS 11.2/11.1 pre-built integrations by following the tasks discussed below:

36.3.5.1 Running Upgrade Scripts for Design to Release: Agile - EBS

1. If you are upgrading Agile PLM or EBS application, then perform the following steps:

1. Update application details in AIA , see Chapter 21, "Configuring and Deploying Design to Release: Agile - EBS"
2. Update application versions in the AIA system table through AIA Console -> Setup -> Systems

2. 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.
3. Navigate to <AIAHOME>/pips/AgileToEbiz/upgrade/11.3 and run the deployment commands for your platform.

Table 36–6 Deployment Commands for Design to Release: Agile - EBS 11.1 to 11.3 Upgrade

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	% sh AgileToEbizUpgradeDP111_To_113.sh
Microsoft Windows	AgileToEbizUpgradeDP111_To_113.bat

Table 36–7 Deployment Commands for Design to Release: Agile - EBS 11.2 to 11.3 Upgrade

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	% sh AgileToEbizUpgradeDP112_To_113.sh
Microsoft Windows	AgileToEbizUpgradeDP112_To_113.bat

36.3.5.2 Performing Postupgrade Tasks for Design to Release: Agile - EBS

To perform postupgrade tasks from AgileToEbiz 11.2 / 11.1 to 11.3:

1. Navigate to the folder $AIA_HOME/aia_instances/<INSTANCE_NAME>/AIAMetaData/config.
2. Open AIAConfigurationProperties.xml and change the following property values listed below from your backup:

   <ModuleConfiguration moduleName="Agile">

   <Property name="LANG_LOCALE">English</Property>

   <Property name="MULTISITE_ENABLED">TRUE</Property>

   <Property name="Item.UnitCostAttribute">Site.Numeric01</Property>

   <Property name="Item.AvailableQuantityAttribute">Site.Numeric02</Property>

   <Property name="Item.OnHandQuantityAttribute">Site.Numeric03</Property>

   <Property name="Item.ReservedQuantityAttribute">Site.Numeric04</Property>

   <Property name="Change.TransferStatusAttribute">PageTwo.Text02</Property>

   <Property name="Change.TransferStatusDetailedMessageAttribute">PageTwo.Multitext35</Property>

   <Property name="REPLICATE_BOM_ENABLED">FALSE</Property>

<Property name="COMMON_BOM_ENABLED">FALSE</Property>

<Property name="EnableAgileATOActionItemIntegration">FALSE</Property>

</ModuleConfiguration>

3. Update MDS with the above AIAConfigurationProperties.xml changes and any other custom changes present in the AIAConfigurationProperties.xml backup file from preupgrade.

   To update AIAConfigurationProperties.xml with custom service

   configuration elements:

   1. Open the $AIA_HOME/aia_instances/$INSTANCE_NAME/config folder.

      Open the AIAConfigurationProperties.xml and add the custom

      elements under respective service configurations.

      Open the deployment plan file, UpdateMetaDataDP.xml. Update the UpdateMetaDataDP.xml by inserting the include tags for AIAConfigurationProperties.xml, which you may want to add to the MDS:

```
<fileset dir="${AIA_HOME}/aia_instances/${INSTANCE_
NAME}">
<include name ="config/AIAConfigurationProperties.xml"/>
</fileset>
```

   2. Open the $AIA_HOME/aia_instances/$INSTANCE_NAME/bin folder.
   3. Execute the following command: **source aiaenv.sh**
   4. Access the file path, $AIA_ HOME/Infrastructure/Install/scripts. Execute the script, UpdateMetaData.xml by using the following command: ant -f $AIA_ HOME/Infrastructure/Install/scripts/UpdateMetaData.xml
   5. Any custom modifications/customizations must be reapplied.

4. If Oracle Enterprise Repository (OER) harvesting is done as part of AgileToEbiz PIP 11.2/11.1 installations and you are harvesting upgraded content to OER, then perform the following steps:

   1. Setup Oracle AIA Content Harvesting. For more information, see Section: 5.1 How to Set Up Oracle AIA Content Harvesting from "Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.7)
   2. Open the $AIA_HOME/aia_instances/$INSTANCE_NAME/bin folder.
   3. Execute the following command: **source aiaenv.sh**
   4. Access the $AIA_HOME/Infrastructure/LifeCycle/AIAHarvester folder. Execute the script, ./AIAHarvest.sh -settings $AIA_HOME/aia_instances/D2R/Infrastructure/LifeCycle/Install/PIPHarvest/AgileToEbizUpgradeHS.xml

5. If Oracle Enterprise Repository (OER) harvesting is not done as part of AgileToEbiz PIP 11.2/11.1 installations and you are harvesting upgraded content to OER, then perform the following steps:

   1. Setup Oracle AIA Content Harvesting. For more information, see Section: 5.1 How to Set Up Oracle AIA Content Harvesting from "Oracle® Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack 11g Release 1 (11.1.1.7)
   2. Open the $AIA_HOME/aia_instances/$INSTANCE_NAME/bin folder.

3. Execute the following command: **source aiaenv.sh**
4. Access the $AIA_HOME/Infrastructure/LifeCycle/AIAHarvester folder. Execute the script, ./AIAHarvest.sh -settings $AIA_HOME/aia_instances/D2R/Infrastructure/LifeCycle/Install/PIPHarvest/AgileToEbizHS.xml

36.3.6 Upgrading Design to Release: Agile - SAP

Upgrade the Design to Release: Agile - SAP pre-built integrations by following the tasks discussed below:

36.3.6.1 Performing Preupgrade Tasks for Design to Release: Agile - SAP

To upgrade the Design to Release: Agile - SAP pre-built integrations from PIP version 11.1 to 11.2, you must manually execute the upgrade scripts. Before you upgrade Design to Release: Agile - SAP PIP, you must download the SAP JCO 3.0 from the SAP market place and copy the JCO.jar file in the lib directory of adapters.

36.3.6.2 Running Upgrade Scripts for Design to Release: Agile - SAP

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. Apply the patch 15835701.
3. Navigate to <AIAHOME>/pips/AgileToSAP/upgrade/11.2 and run the deployment commands for your platform.

Table 36–8 Deployment Commands for Design to Release: Agile - SAP

Platform	Deployment Command
Linux	% sh AgileToSAPUpgradeDP111_To_112.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	AgileToSAPUpgradeDP111_To_112.bat

36.3.6.3 Performing Postupgrade Tasks for Design to Release: Agile - SAP

To perform postupgrade tasks:

1. Any custom modifications/customizations must be reapplied.
2. Ensure that the DVM entries in all the DVMs are added. If the DVM entries do not exist, then you must add the entries.

36.3.7 Upgrading Comms Agent Assisted Billing Care: Siebel CRM - BRM

Upgrade Foundation Pack first and then upgrade the Comms Agent Assisted Billing Care: Siebel CRM - BRM Pre-Built Integrations following the tasks discussed below.

36.3.7.1 Performing Preupgrade Tasks for Comms Agent Assisted Billing Care: Siebel CRM - BRM

To upgrade the Comms Agent Assisted Billing Care: Siebel CRM - BRM Pre-Built Integrations from PIP version 11.2 to 11.3, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later

from your existing version before you can upgrade Comms Agent Assisted Billing Care: Siebel CRM - BRM.

36.3.7.2 Running Upgrade Scripts for Comms Agent Assisted Billing Care: Siebel CRM - BRM

To upgrade the integration on the 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. Navigate to <AIAHOME>/pips/Communications/AABC/Upgrade and run the command for your platform.

Table 36–9 Deployment Commands for Comms Agent Assisted Billing Care: Siebel CRM - BRM

Platform	Deployment Command
Linux	./UpgradeAABC11_2_To_11_3.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	UpgradeAABC11_2_To_11_3.bat

3. Review the log at location <AIA_INSTANCE>/<INSTANCE_NAME>/logs/AABC-Upgrade-11_2_To_11_3-DD-MM-YYYY_HH-HH-SS.log.

36.3.7.3 Performing Postupgrade Tasks for Comms Agent Assisted Billing Care: Siebel CRM - BRM

You must perform the following postupgrade tasks:

1. Reconfigure MultiBRM setup in AIA Configuration file and update the MDS.

   This step is required because the upgrade script forcemerges the AIA service configurations into <AIA_INSTANCE>/<INSTANCE_NAME>/AIAMetaData/config/AIAConfigurationProperties.xml.
2. Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.3.8 Upgrading Comms Order to Cash: Siebel CRM, OSM and BRM

Upgrade Foundation Pack first and then upgrade the Comms Order to Cash: Siebel CRM, OSM and BRM Pre-Built Integrations following the tasks discussed below.

36.3.8.1 Performing Preupgrade Tasks for Comms Order to Cash: Siebel CRM, OSM and BRM

To upgrade the Comms Order to Cash: Siebel CRM, OSM and BRM Pre-Built Integrations from version 11.2 to 11.3, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade Comms Order to Cash: Siebel CRM, OSM and BRM.

36.3.8.2 Running Upgrade Scripts for Comms Order to Cash: Siebel CRM, OSM and BRM

To upgrade the integration on the 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. Navigate to <AIAHOME>/pips/Communications/O2C/Upgrade and run the command for your platform.

Table 36–10 Deployment Commands for Comms Order to Cash: Siebel CRM, OSM and BRM

Platform	Deployment Command
Linux	./UpgradeO2C11_2_To_11_3.sh
Solaris SPARC	
IBM AIX Based Systems	
HP-UX	
Microsoft Windows	UpgradeO2C11_2_To_11_3.bat

3. Review the log at location <AIA_INSTANCE>/<INSTANCE_NAME>/logs/O2C-Upgrade-11_2_To_11_3-DD-MM-YYYY_HH-HH-SS.log.

36.3.8.3 Performing Postupgrade Tasks for Comms Order to Cash: Siebel CRM, OSM and BRM

You must perform the following postupgrade tasks:

1. Reconfigure MultiBRM setup in AIA Configuration file and update the MDS.

   This step is required because the upgrade script forcemerges the AIA service configurations into <AIA_INSTANCE>/<INSTANCE_NAME>/AIAMetaData/config/AIAConfigurationProperties.xml.
2. Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.3.9 Upgrading Comms Order to Cash: Siebel CRM and BRM

Upgrade Foundation Pack first and then upgrade the Comms Order to Cash: Siebel CRM and BRM Pre-Built Integrations following the tasks discussed below.

36.3.9.1 Performing Preupgrade Tasks for Comms Order to Cash: Siebel CRM and BRM

To upgrade the Comms Order to Cash: Siebel CRM and BRM Pre-Built Integrations from version 11.2 to 11.3, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade Comms Order to Cash: Siebel CRM and BRM.

36.3.9.2 Running Upgrade Scripts for Comms Order to Cash: Siebel CRM and BRM

To upgrade the integration on the 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. Navigate to <AIAHOME>/pips/Communications/O2B/Upgrade and run the command for your platform.

Table 36–11 Deployment Commands for Comms Order to Cash: Siebel CRM and BRM

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	./UpgradeO2B11_2_To_11_3.sh
Microsoft Windows	UpgradeO2B11_2_To_11_3.bat

3. Review the log at location <AIA_INSTANCE>/<INSTANCE_NAME>/logs/O2B-Upgrade-11_2_To_11_3-DD-MM-YYYY_HH-HH-SS.log.

36.3.9.3 Performing Postupgrade Tasks for Comms Order to Cash: Siebel CRM and BRM

1. Reconfigure MultiBRM setup in AIA Configuration file and update the MDS.

   This step is required because the upgrade script forcemerges the AIA service configurations into <AIA_INSTANCE>/<INSTANCE_NAME>/AIAMetaData/config/AIAConfigurationProperties.xml.
2. Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.3.10 Upgrading Comms Order to Cash: Siebel CRM and OSM

Upgrade Foundation Pack first and then upgrade the Comms Order to Cash: Siebel CRM and OSM Pre-Built Integrations following the tasks discussed below.

36.3.10.1 Performing Preupgrade Tasks for Comms Order to Cash: Siebel CRM and OSM

To upgrade the Comms Order to Cash: Siebel CRM and OSM Pre-Built Integrations from version 11.2 to 11.3 you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.5.0 from your existing version before you can upgrade Comms Order to Cash: Siebel CRM and OSM.

36.3.10.2 Running Upgrade Scripts for Comms Order to Cash: Siebel CRM and OSM

To upgrade the integration on the 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. Navigate to <AIAHOME>/pips/Communications/O2A/Upgrade and run the command for your platform.

Table 36–12 Deployment Commands for Comms Order to Cash: Siebel CRM and OSM

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	./UpgradeO2A11_2_To_11_3.sh
Microsoft Windows	UpgradeO2A11_2_To_11_3.bat

3. Review the log at location <AIA_INSTANCE>/<INSTANCE_NAME>/logs/O2A-Upgrade-11_2_To_11_3-DD-MM-YYYY_HH-HH-SS.log.

36.3.10.3 Performing Postupgrade Tasks for Comms Order to Cash: Siebel CRM and OSM

1. Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.4 Upgrading AIA 3.1 PIPs and DIs

Note: The PIPs or DIs that are not listed in this section do not require updates because the contents have not changed.

This section discusses the upgrade process for AIA 3.1 PIPs and DIs. The PIPs and DIs included in this section are upgraded from version 3.1 to 3.1.1 and from 3.1 to 11.2.

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

Upgrade Foundation Pack first and then upgrade the Design to Release: Agile PLM for Process - OPM PIP following the tasks discussed below.

Note: Existing patches for the Design to Release: Agile PLM for Process - OPM 3.1.1 PIP are still applicable in the 11.5 release and are not included as part of the upgrade process. After upgrading you must reapply any patches installed for the RV 3.1.

36.4.1.1 Performing Preupgrade Tasks for the Design to Release: Agile PLM for Process - OPM PIP

To upgrade the Design to Release: Agile PLM for Process - OPM PIP from version 3.1 to 3.1.1, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade Design to Release: Agile PLM for Process - OPM PIP.

36.4.1.2 Running Upgrade Scripts for the Design to Release: Agile PLM for Process - OPM PIP

To upgrade the PIP on the 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 -. The same is true when running the undeployment command.

Table 36–13 Deployment Commands for the Design to Release: Agile PLM for Process - OPM 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/PLM4PEbizOPM/upgrade/11.1/PLM4PEbizOPMUpgrade31_To_111DP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <AIA_HOME>/pips/PLM4PEbizOPM/upgrade/11.1/PLM4PEbizOPMUpgrade31_To_111.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\PLM4PEbizOPM\upgrade\11.1\PLM4PEbizOPMUpgrade31_To_111DP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -l <AIA_HOME>\pips\PLM4PEbizOPM\upgrade\11.1\PLM4PEbizOPMUpgrade31_To_111.log`

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

36.4.1.3 Performing Postupgrade Tasks for the Design to Release: Agile PLM for Process - OPM PIP

- Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.4.2 Upgrading the Lead to Order: CRM OD - EBS PIP

Upgrade Foundation Pack first and then upgrade the Lead to Order: CRM OD -EBS PIP following the tasks discussed below.

> **Note:** Existing patches for the Lead to Order: CRM OD -EBS 3.1.1 PIP are still applicable in the 11.5 release and are not included as part of the upgrade process. After upgrading you must reapply any patches installed for the RV 3.1.

36.4.2.1 Performing Preupgrade Tasks for the Lead to Order: CRMOD - EBS PIP

To upgrade Lead to Order: CRM OD - EBS PIP from version 3.1 to 3.1.1, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade Lead to Order: CRM OD - EBS PIP.

36.4.2.2 Running Upgrade Scripts for the Lead to Order: CRM OD - EBS PIP

To upgrade the PIP on the 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. Navigate to <AIA_HOME>pips/CRMODtoEbizLeadToOrder/upgrade/11.1 and run the command for your platform.

Table 36–14 Deployment Commands for the Lead to Order: CRM OD - EBS PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	./CRMODtoEbizLeadToOrderUpgradeDP31_TO_111.sh
Microsoft Windows	CRMODtoEbizLeadToOrderUpgradeDP31_TO_111.bat

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

36.4.2.3 Performing Postupgrade Tasks for the Lead to Order: CRM OD - EBS PIP

Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.4.3 Upgrading the Order to Cash: Siebel CRM - EBS PIP

Upgrade Foundation Pack first and then upgrade the Order to Cash: Siebel CRM - EBS PIP following the tasks discussed below.

> **Note:** Existing patches for the Order to Cash: Siebel CRM - EBS 3.1.1 PIP are still applicable in the 11.5 release and are not included as part of the upgrade process. After upgrading you must reapply any patches installed for the RV 3.1.

36.4.3.1 Performing Preupgrade Tasks for the Order to Cash: Siebel CRM - EBS PIP

To upgrade the Order to Cash: Siebel CRM - EBS PIP from version 3.1 to 3.1.1, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade Order to Cash: Siebel CRM - EBS PIP.

36.4.3.2 Running Upgrade Scripts for the Order to Cash: Siebel CRM - EBS PIP

To upgrade the PIP on the 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 36–15 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/upgrade/11.1/OrderToCashUpgrade31_To_111DP.xml -DPropertiesFile=<AIA_HOME>/aia_instances/<aia_instance>/config/AIAInstallProperties.xml -l <AIA_HOME>/pips/OrderToCash/upgrade/11.1/OrderToCashUpgrade31_To_111.log`
Microsoft Windows	`ant -f <AIA_HOME>\Infrastructure\Install\AID\AIAInstallDriver.xml -DDeploymentPlan=<AIA_HOME>\pips\OrderToCash\upgrade\11.1\OrderToCashUpgrade31_To_111DP.xml -DPropertiesFile=<AIA_HOME>\aia_instances\<aia_instance>\config\AIAInstallProperties.xml -l <AIA_HOME>\pips\OrderToCash\upgrade\11.1\OrderToCashUpgrade31_To_111.log`

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

36.4.3.3 Performing Postupgrade Tasks for the Order to Cash: Siebel CRM - EBS PIP

Perform additional post upgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.4.4 Upgrading the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Upgrade Foundation Pack first and then upgrade the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP following the tasks discussed below.

The steps to upgrade the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP from version 3.1 to version 3.1.1 are the same if upgrading from the AIA 3.1 release to the AIA 11.5 release or the AIA 11.4 release to the AIA 11.5 release.

Note: Existing patches for the LSP Order Mgmt: OTM - EBS - Siebel CRM 3.1.1 PIP are still applicable in the 11.5 release and are not included as part of the upgrade process. After upgrading you must reapply any patches installed for the RV 3.1.

36.4.4.1 Performing Preupgrade Tasks for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

To upgrade the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP from version 3.1 to version 3.1.1, you must manually execute the upgrade scripts. You must upgrade Foundation Pack to 11.1.1.6.0, RUP patch 16301959 or later from your existing version before you can upgrade the Order to Cash: Siebel CRM - EBS PIP.

Note: If you have not installed the 11.5 AIA release, run the AIA 11.5 installer on your existing AIAHOME to get the latest version of the files.

36.4.4.2 Running Upgrade Scripts for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

To upgrade the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP on the 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. Navigate to $AIA_HOME/pips/FleetOrderManagement/upgrade and run the command from your platform.

Table 36–16 Deployment Commands for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Platform	Deployment Command
Linux Solaris SPARC IBM AIX Based Systems HP-UX	`./UpgradeFleetOrderManagement.sh`
Microsoft Windows	`UpgradeFleetOrderManagement.bat`

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

36.4.4.3 Performing Postupgrade Tasks for the LSP Order Mgmt: OTM - EBS - Siebel CRM PIP

Perform additional postupgrade tasks as described in Section 36.5, "Performing Postupgrade Tasks for Pre-Built Integrations" and Section 36.6, "Performing Postupgrade Tasks for AIA".

36.5 Performing Postupgrade Tasks for Pre-Built Integrations

You must perform the following key tasks after you successfully upgrade to pre-built integrations 11.5:

- Deploy any custom processes that were developed.

  If you plan to use any of the enhanced or new features in pre-built integrations 11.1, including the EBO changes, you must update these custom processes before re-deployment.

- Merge extensions.

  Any xsl extensions and wsdl customizations maintained in AIA HOME / SOA HOME must be merged with the preupgrade back up changes after comparison.

- Restore customizations.

  Any custom code developed and maintained in AIA HOME / SOA HOME must be restored.

- Upgrading ABCS Service Generator input.xml

The *input*.xml files created in previous versions of the pre-built integrations do not directly work with 11.1.1.6.0 version of ABCS Service Generator. You must move **GenerateReferenceWSDLFileIndicator** element from **GenerateOutputFiles** section to each **TargetService** where you must reference the WSDL. This flag must be added to each of the targetservice sections.

Log in to the AIA Console to verify that the following components are working:

- OER (optional):

  Ensure that the services and objects can be searched for and viewed. If you had any integration scenarios published, check whether they are accessed as well.

- CAVS:

  Check that the existing Test and Simulator definitions defined can still be viewed and are functional.

- Error Handling and Setup:

  Verify that the existing setup data (Setup Tab Page) is unchanged and two new columns (ERROR_TYPE, ERROR_EXT_HANDLER) are added to the Error Notifications table.

- Perform additional post upgrade tasks as described in Section 36.6, "Performing Postupgrade Tasks for AIA".

36.6 Performing Postupgrade Tasks for AIA

Evaluate the upgrade log file for any exceptions or warnings:

- For pre-built integrations, the upgrade DP log is created on the name of the integration. For example, if you are upgrading the CRMOD to Ebiz Lead to Order PIP, the name of the log file is *AIA_HOME/pips/CRMODtoEbizLeadToOrder/upgrade/11.1/CRMODtoEbizLeadToOrderUpgradeDP31_TO_111.log*.

The following warning message describes the EOL content:

runCustomExtTracer:

[java] java.io.UTFDataFormatException: Invalid byte 1 of 1-byte UTF-8 sequence.

- For objects that were identified to have been extended, the AIA Pre-Built Integrations Installer logs the list of EBOs that it found extended by you. These are reported in the following way:

[java] /slot/ems1846/oracle/FP_Upgrade_9June_1/patchset/AIAComponents/EnterpriseObjectLibrary/Core/Custom/EBO/InstalledProduct/V2/CustomInstalledProductEBO.xsd

*[java] :[Element: <xsd:sequence [Namespace: http://www.w3.org/2001/XMLSchema]/>]***element updated**

- Every major task performed by the AIA Pre-Built Integrations Installer is audited in the file. Here are some sample audit comments:

undeployAIAUI:

[echo] - Undeploying the Ear AIAApplication.ear

[java] 08/08/09 16:12:33 Notification ==>Application UnDeployer for AIAApplication STARTS.

DeployAIAUI:

[echo] - Deploying the Ear AIAApplication.ear

[oracle:deploy] Deploying application AIAApplication.

[oracle:deploy] Application deployer for AIAApplication COMPLETES.

[echo] - Deployment of AIAApplication.ear completed

From the backups that you performed, compare the following files and manually merge the configuration settings, as required:

You should consider restoring files from the backups of the <aia_instance>/AIAMetaData/config folder.

For more information about how to perform implementation-related configurations, see *Oracle Fusion Middleware Developer's Guide for Oracle Application Integration Architecture Foundation Pack*.

Part V

Uninstalling Oracle AIA

This part provides a general introduction to and the steps involved in uninstalling Oracle AIA.

This part contains the following chapter:

- Chapter 37, "Uninstalling Oracle AIA"

37

Uninstalling Oracle AIA

This chapter discusses how to uninstall the Process Integration Packs (PIP) and Direct Integrations (DI) included in pre-built integrations and Foundation Pack.

This chapter includes the following sections:

- Section 37.1, "Uninstalling Pre-Built Integrations and Foundation Pack"

  Section 37.2, "Uninstalling PIP or DIs"
- Section 37.3, "Cleaning the Environment"
- Section 37.4, "Verifying Uninstall Processes"

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

37.1 Uninstalling Pre-Built Integrations and Foundation Pack

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

1. Manually back up your customizations.
2. Undeploy all the PIPs and DIs that belong to the pre-built integrations by launching the respective undeployment plan for your PIP or DI.
3. Launch the pre-built integrations OUI wizard. This is located at: AIA_HOME/oui/bin. You must type *./runInstaller -deinstall*.

   On the **Deinstall AIA Home** screen, make sure the AIA_Home shown is correct and select **DEINSTALL**.
4. Exit the Uninstaller.

37.2 Uninstalling PIP or DIs

A PIP or DI can never be uninstalled individually. Individual PIPs or DIs can only be undeployed by running its respective undeployment plan.

For more information, see the undeployment section of your respective PIP or DI in Part II, "Configuring and Deploying Pre-Built Integrations" or Part III, "Configuring and Deploying AIA RV 3.1.1 PIPs and DIs" of this guide.

When you run the Uninstall, it removes all individual integrations and Foundation Pack installed in AIA_HOME.

37.3 Cleaning the Environment

To clean the environment:

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

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

37.4 Verifying Uninstall Processes

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

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

For more information about which services are associated with which delivered components, see the *Oracle Application Integration Architecture - Foundation Pack: Core Infrastructure Components Guide*.

Part VI

Appendix

This part includes screenshots for the AIA Pre-Built Integrations Installer and Oracle Data Integrator.

This part includes the following appendixes:

- Appendix A, "AIA Pre-Built Integrations Installer Screens"
- Appendix B, "Oracle Data Integrator Screen"

A

AIA Pre-Built Integrations Installer Screens

This appendix includes the screenshots of the Application Integration Architecture (AIA) Pre-Built Integrations Installer screens you see when installing AIA Pre-Built Integrations 11.5. The steps for installation are described in Chapter 3, "Installing Pre-Built Integrations".

Figure A–1 Welcome Screen of the AIA Pre-Built Integrations Installer

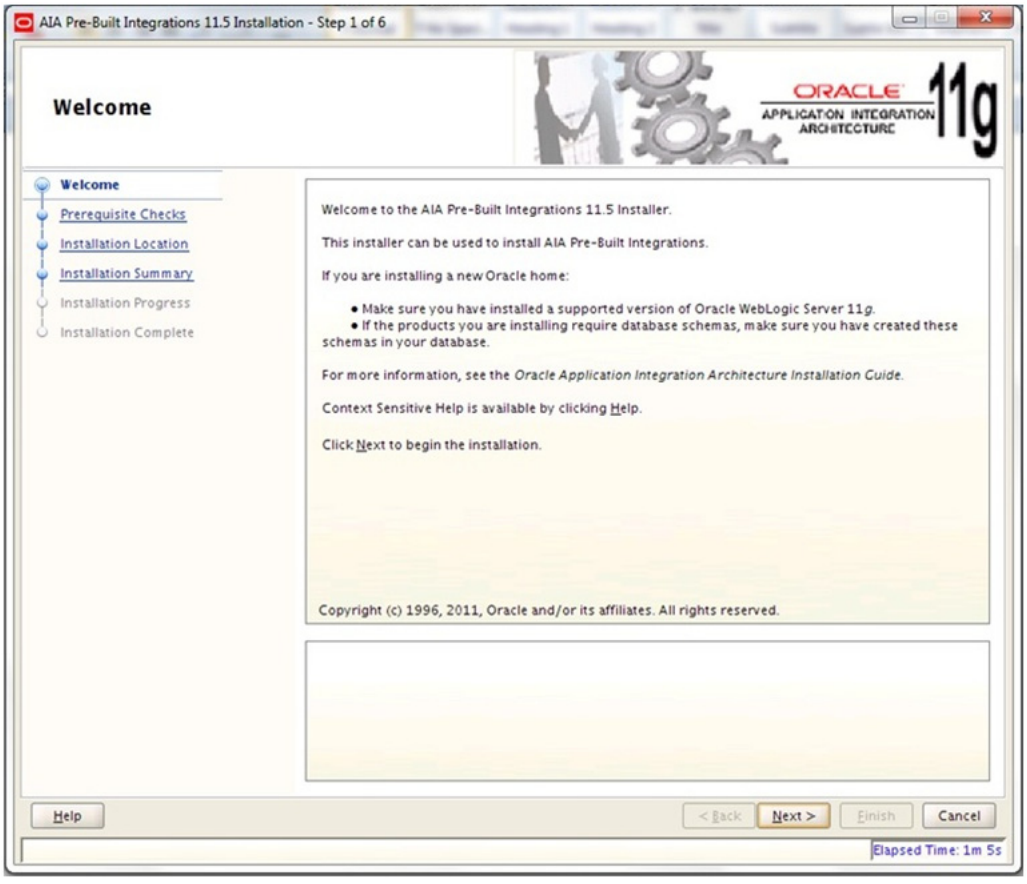


Figure A–2 Prerequisite Checks Screen of the AIA Pre-Built Integrations Installer.

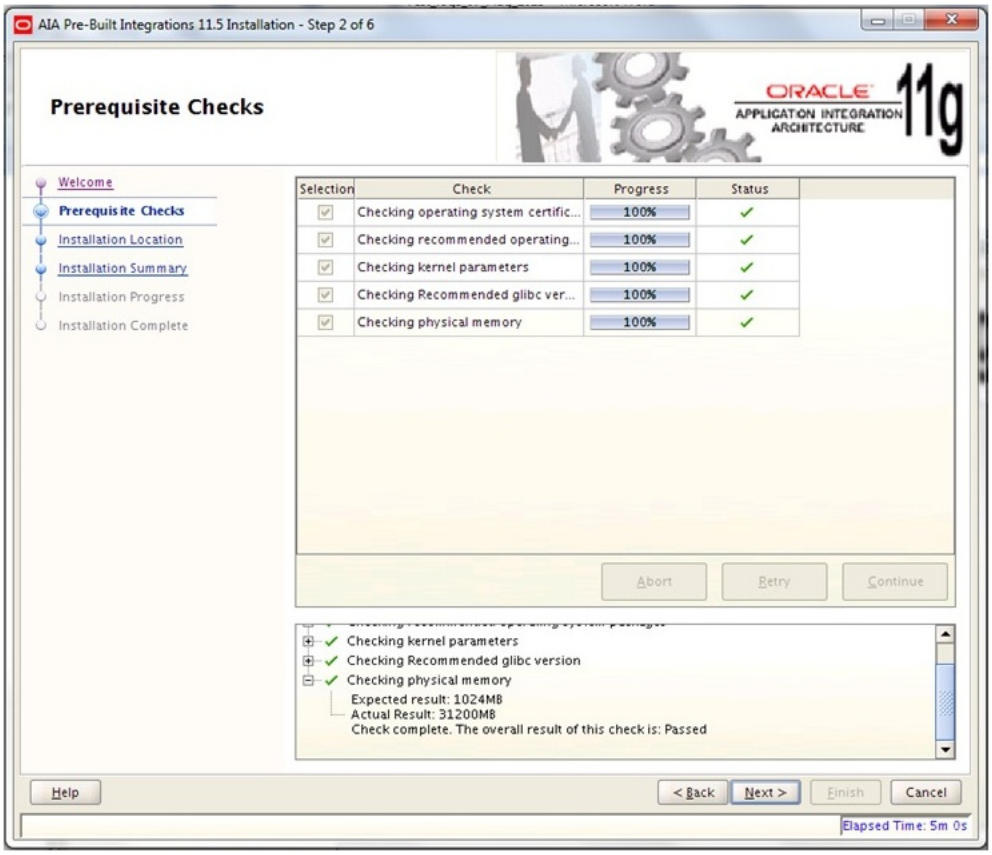


Figure A–3 Installation Location Screen of the AIA Pre-Built Integrations Installer.

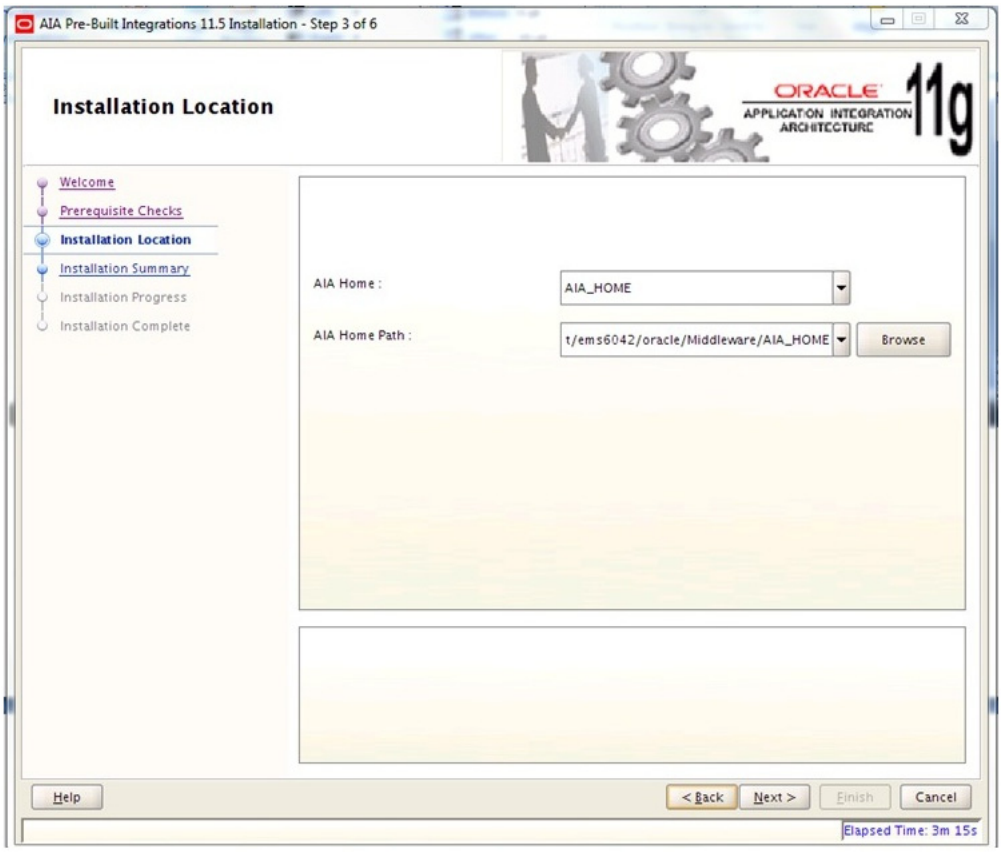


Figure A–4 Installation Summary Screen of the AIA Pre-Built Integrations Installer

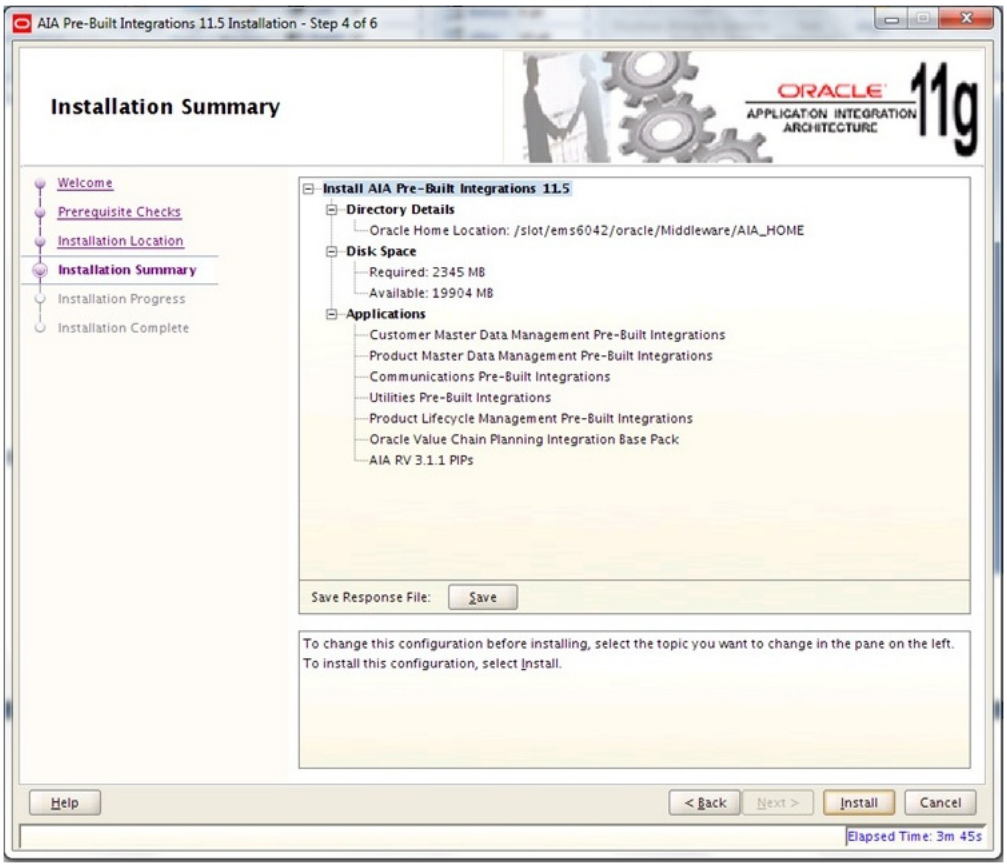


Figure A–5 Warning Message

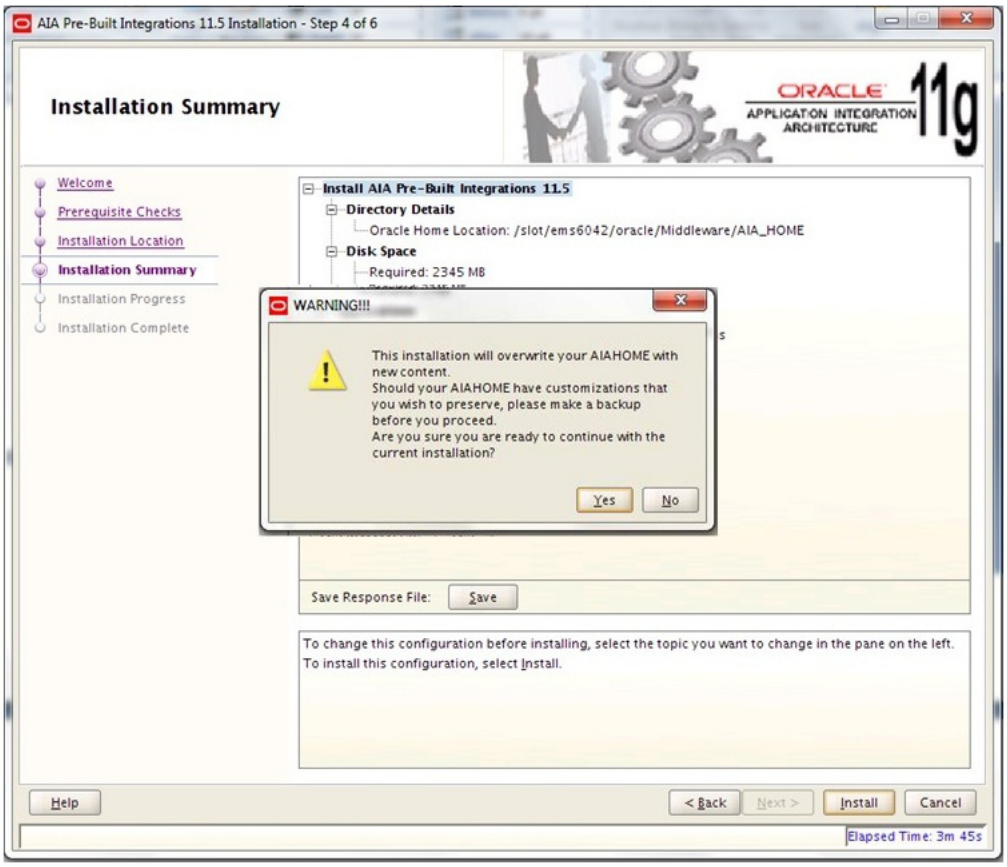


Figure A–6 Installation Progress Screen of the AIA Pre-Built Integrations Installer.

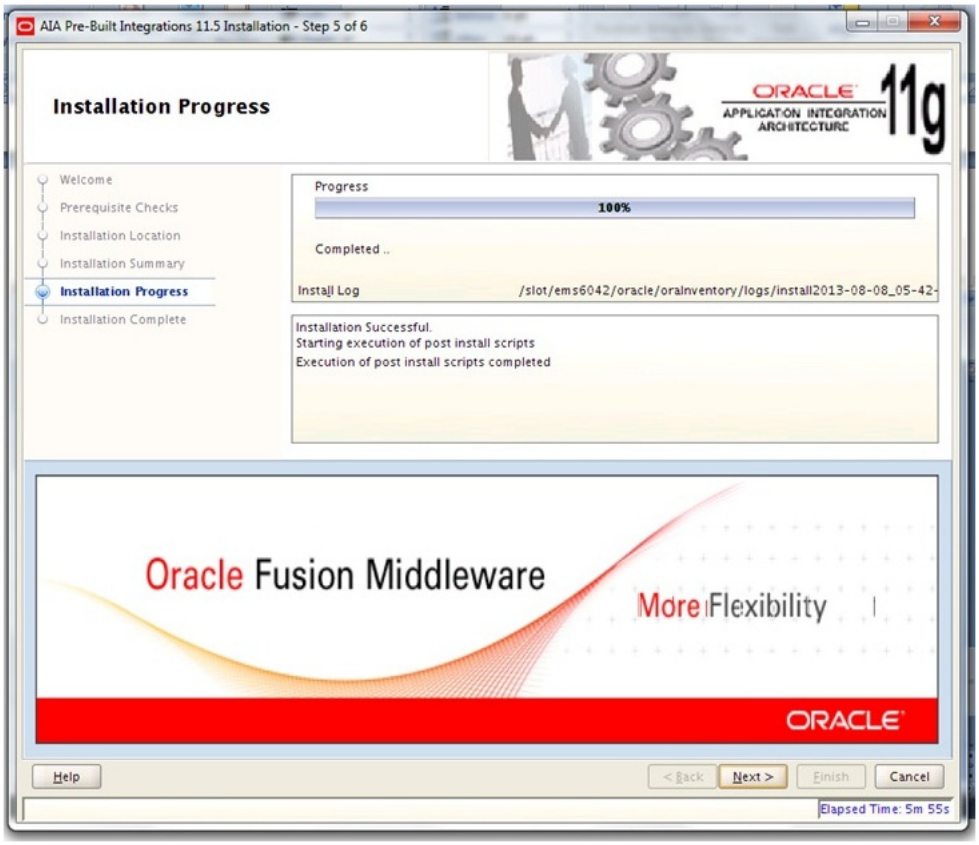
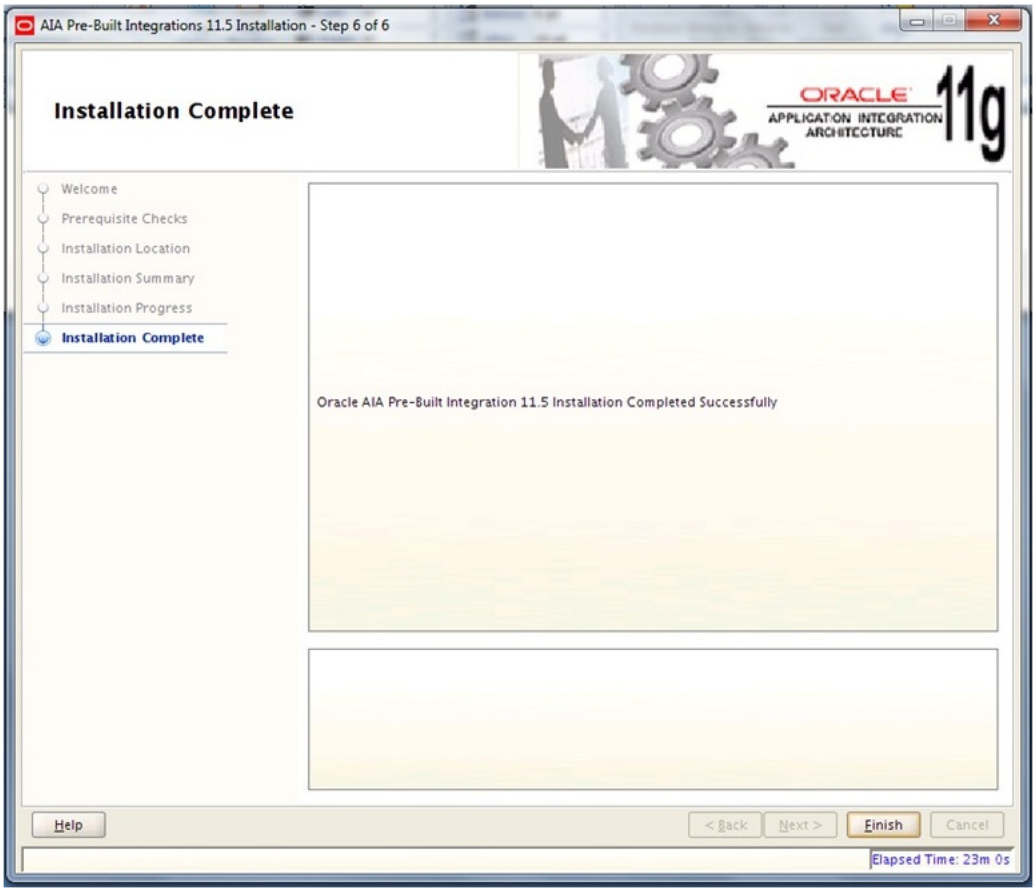


Figure A–7 Installation Complete Screen of the AIA Pre-Built Integrations Installer.



B

Oracle Data Integrator Screen

This appendix includes screenshots of the Oracle Data Integrator (ODI) Installer that you see when configuring the ODI.

Figure B–1 Oracle Data Integrator Topology Screen

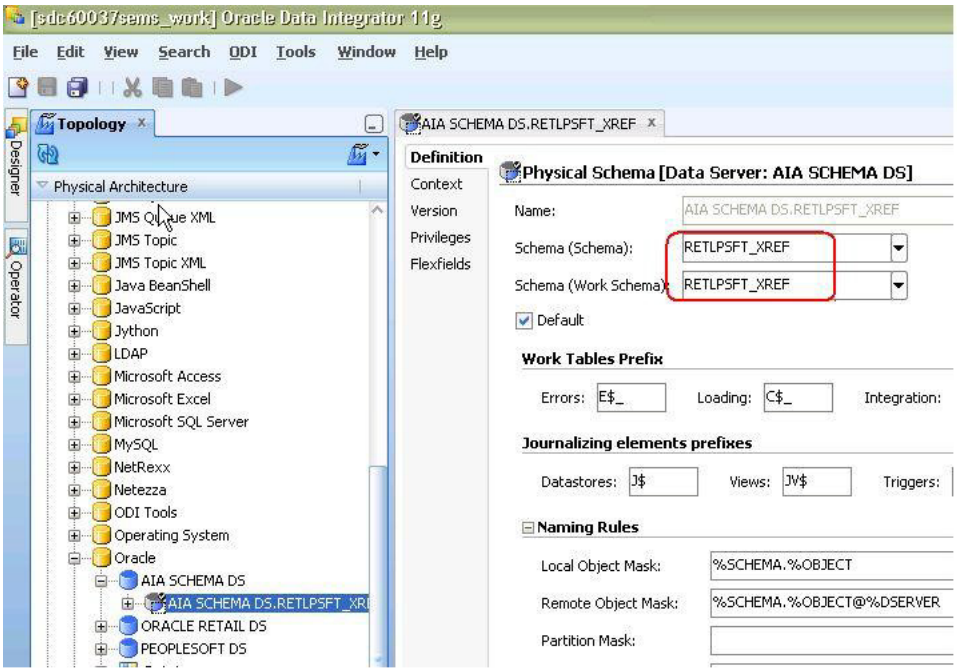


Figure B–2 JDBC Tab of the ODI Installer Screen