

Oracle Process Integration Pack for Oracle Utilities Field Work

Upgrade Guide

Release 12.1.0 Media Pack

July 2015

Oracle Process Integration Pack for Oracle Utilities Field Work Upgrade Guide, Release 12.1.0

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Primary Author: Oracle Corporation

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Preface

This guide is intended for anyone upgrading from Oracle Process Integration Pack for Oracle Utilities Field Work v3.1 running on SOA Suite 11g to Oracle Process Integration Pack for Oracle Utilities Field Work v12.1 running on SOA Suite 12c and needing to move customizations from the older version to the new version.

Related Documents

For more information regarding this integration, foundation technology and the edge applications refer to the following documents:

Topic	Description
Oracle Process Integration Pack for Oracle Utilities Field Work 12.1 Installation Guide	
Oracle Process Integration Pack for Oracle Utilities Field Work 12.1 Implementation Guide	
Oracle Process Integration Pack for Oracle Utilities Field Work 12.1 Upgrade Guide	Same folder as this document, with the distribution for this product or the OTN page: http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html
Data Mapping Guides	
Edge application documentation:	
Oracle Utilities Work and Asset Management v2.1.x or v1.9.1.x documentation	Refer to the Oracle applications documentation page: http://www.oracle.com/technetwork/apps-tech/utilities/documentation/index.html
Oracle Utilities Customer Care and Billing documentation	
Oracle Utilities Mobile Workforce Management documentation	
SOA Suite 12c documentation	Refer to the SOA documentation at: http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html

Topic	Description
Oracle Fusion Middleware 12c documentation	Refer to the Oracle applications documentation page: http://docs.oracle.com/en/middleware/
Oracle Support Visit regularly to stay up to date with the latest updates to this integration	https://support.oracle.com
Oracle University for training opportunities	http://education.oracle.com/

Upgrade Guide

This document provides information on moving customizations from the Oracle Process Integration Pack for Oracle Utilities Field Work v3.1 running on SOA Suite 11g to Oracle Process Integration Pack for Oracle Utilities Field Work v12.1 running on SOA Suite 12c.

The procedures described should be completed after installing the Oracle Process Integration Pack for Oracle Utilities Field Work v12.1 according to the instructions provided in the Installation Guide.

Note: Prior to upgrading to the 12c version, ensure that all of your in flight instances in the 11g version have completed successfully. For instance, make sure all open orders or activities are completed before switching to the 12c environment.

Migrating Extended EBOs

A custom schema definition file (XSD) is provided for every EBO that is shipped with the integration. The EBO can be modified by changing these custom files. The XSDs are incorporated into the EBOs so that any custom extensions that are added to the EBOs are protected when patches or upgrades are applied.

Any changes made to these custom XSDs in the 11g version should be manually merged to the code line for the 12c version.

1. Copy the modified EBO xsd file(s) to the correct location on the application server. in 12c.
Ex: <AIA_HOME>/AIAMetaData/AIAComponents/EnterpriseObjectLibrary/
<Path_to_xsd>
2. Update the modified xsd in the above step to the MDS Repository for the changes to take effect.
3. Follow the steps below to deploy the modified xsds:
 - a. Run the Middleware Home/user_projects/domains/soa_domain/soa/aia/bin aiaenvbat or aiaenvsh depending on the operating system.

This sets the environment variables required by the build process.
 - b. Update Metadata using the following steps:
 - Browse to the folder at \$DOMAIN_LOCATION/soa/aia/MDSUtils/UpdateMetaDataDP.xml and open the deployment plan file, UpdateMetaDataDP.xml.
 - Update the file UpdateMetaDataDP.xml by inserting include tags for each resource group that you want to add to the MDS:

Example to update xsd file:

```
<fileset dir="${env.SERVICES_LOCATION}/AIAMetaData">
<include name="AIAComponents/ EnterpriseObjectLibrary/
Industry/Utilities/Custom/EBO/WorkOrder/V1/
CustomWorkOrderEBO.xsd" />
</UpdateMetadata>
</Configurations>
</DeploymentPlan> "Run the update utility.
```

Linux:

```
ant -f $SOA_HOME/aiafp/Install/AID/AIAInstallDriver.xml -
DDeploymentPlan=$DOMAIN_LOCATION/soa/aia/MDSUtils/
UpdateMetaDataDP.xml
```

Windows:

```
ant -f %SOA_HOME%\aiafp\Install\AID\AIAInstallDriver.xml -
DDeploymentPlan=
%DOMAIN_LOCATION%\soa\ai\MDSUtils\UpdateMetaDataDP.xml
```

This process prompts for the admin host, port, user name and password. Enter these details to complete the process.

Migrating Custom Composites

All Requester and Provider ABC Services provided with this integration pack have extension points available to extend the functionality using custom composites.

All custom extension composites can be migrated from the 11g version to the 12c version. Ensure you have a proper backup of the 11g process before doing the upgrade from the 11g version to the 12c version.

Open the 11g composite in Jdeveloper 12.1.3 and save the composite. The directory structure of the composite changes and some files are added and deleted.

Manual changes to be made when migrating from the 11g version to the 12c version:

1. All the transformations currently are either in xsl folder or under the composite directory, should be moved to Transformations folder and all references in the .bpel file should be changed accordingly.
2. Move all the WSDLs to the WSDLs folder.
3. Move all BPEL to the BPEL folder.
4. Move all schemas to the Schemas folder.
5. Move all the adapter related files to the Adapters folder.
6. Move all human task related artifacts to the HumanTasks folder.
7. Move all the mediator artifacts to the Mediators folder.

Ensure that there are no errors and deploy directly from JDev or using the CustomDP file.

Steps to deploy using the custom DP script for deployment:

An example of FieldWorkCustomDP.xml file to deploy and undeploy composite files is found in \$AIA_HOME/pips/FieldWork/DeploymentPlans/FieldWorkCustomDP.xml.

```
<DeploymentPlan component="FieldWork" version="3.0">
  <Deployments>
    <Composite compositeName="<processname>"
      compositedir="{AIA_HOME}/ services/industry/Utilities/
      OUCCB/RequestorABCS/<processname>" revision="1.0"
      wlserver="pips.FieldWork" action="deploy" />
    </Deployments>
  </DeploymentPlan>
```

Once the custom script is ready, execute the custom script using the following command:

Linux:

```
ant -f $SOA_HOME/aiafp/Install/AID/AIAInstallDriver.xml -
DDeploymentPlan=$AIA_HOME/pips/FieldWork/DeploymentPlans/
FieldWorkCustomDP.xml
```

Windows:

```
ant -f %SOA_HOME%\aiafp\Install\AID\AIAInstallDriver.xml -
DDeploymentPlan=%AIA_HOME%\pips\FieldWork\DeploymentPlans\Fi
eld WorkCustomDP.xml
```

This process prompts for the admin host, port, user name and password. Enter these details to complete the process.

Migrating Custom XSLs

Same Custom XSLs previously available in the 11g version are now available in the 12c version. In order to ensure that the source/target mapping feature is not lost, do not copy the XSL as is from the 11g version to the 12c version but instead manually merge those changes from the 11g version of XSL to the 12c version of XSL.

Redeploy the modified processes either from JDEV or using the Custom DP file as specified above.

Migrating DVMs

Same DVMs previously available in the 11g version are now available in the 12c version. In addition, there are a few more DVMs that have been created in the 12c version. Move the DVMs manually from the 11g version to the 12c environment.

Update the MDS using UpdateMetaDataDP.xml. The detailed steps to update MDS are specified in the section – Migrating Extended EBOs above where the appropriate DVM file locations are included in the *files* section.

Migrating AIAConfigurationProperties.xml

There is an equivalent AIAConfigurationProperties.xml that was available in the 11g version which is also available in the 12c version. Updating the ConfigurationProperties differs somewhat in SOA Suite 22c.

To update the configuration:

- Download the configuration properties file from MDS using GetFieldWorkConfigFileDP.xml

Linux:

```
ant -f $SOA_HOME/aiafp/Install/AID/AIAInstallDriver.xml -
DDeploymentPlan=$AIA_HOME/pips/FieldWork/DeploymentPlans/
GetFieldWorkConfigFileDP.xml
```

Windows:

```
ant -f %SOA_HOME%\aiafp\Install\AID\AIAInstallDriver.xml -
DDeploymentPlan=%AIA_HOME%\pips\FieldWork\DeploymentPlans\Ge
tFieldWo rkConfigFileDP.xml
```

This process prompts for the admin host, port, user name and password. Enter these details to complete the process.

- Merge the changes from the 11g version into the downloaded file in \$AIA_HOME/config folder and run un the UpdateFieldWorkConfigFileDP.xml utility provided.

Linux:

```
ant -f $SOA_HOME/aiafp/Install/AID/AIAInstallDriver.xml -
DDeploymentPlan=$AIA_HOME/pips/FieldWork/DeploymentPlans/
UpdateFieldWorkConfigFileDP.xml
```

Windows:

```
ant -f %SOA_HOME%\aiafp\Install\AID\AIAInstallDriver.xml -
DDeploymentPlan=%AIA_HOME%\pips\FieldWork\DeploymentPlans\Up
dateField WorkConfigFileDP.xml
```