

Oracle® Utilities Integration for Device Operations

Installation Guide

Oracle Utilities Meter Data Management v2.0.1.8
Oracle Utilities Operational Device Management
v2.0.1

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Overview

This guide describes the installation steps that must be completed before Oracle Utilities Meter Data Management can be integrated with Oracle Utilities Operational Device Management.

Additional Resources

For more information refer to the following documents:

Resource	Location
Oracle Utilities Integration for Device Operations Implementation Guide	Same folder as this document, with the distribution for this product.
Oracle Utilities Meter Data Management Installation Guide for Release v2.0.1.8	Refer to Oracle Utilities Meter Data Management Installation documentation located on the Oracle Software Delivery Cloud at: https://edelivery.oracle.com
Oracle Utilities Operational Device Management Installation Guide for Release v2.0.1	Refer to Oracle Utilities Operational Device Management Installation documentation located on the Oracle Software Delivery Cloud at: https://edelivery.oracle.com/

Abbreviations

Abbreviations used in this guide are listed below:

- ODM - Oracle Utilities Operational Device Management
- MDM - Oracle Utilities Meter Data Management
- DDL - Data Definition Language
- MDS - Metadata Services

Installation

The following sections describe the settings and requirements for a successful installation of the Oracle Utilities Integration for Device Operations. Complete these installation steps before configuring the applications for integrated functionality.

Software Requirements

The following software and platforms must be installed and configured before the integration pack can be installed.

Note: For complete details, refer to the product specific installation instructions.

- Oracle Utilities Operational Device Management – Application version v2.0.1 installed on an Oracle database with the following updates:
- Oracle Utilities Meter Data Management – Application version v2.0.1.8 installed on an Oracle database with the following updates:
- SOA11g / Oracle Enterprise Manager 11.1.1.6.0 on WebLogic Server 10.3.6.

Note: This integration does not require AIA Foundation Pack to be installed.

Pre-Installation Tasks

The following tasks should be completed before installing Oracle Utilities Integration for Device Operations:

- Ensure that Oracle [SOA Suite 11gR1 PS5 (11.1.1.6.0) is installed and running.
For details refer to documentation at:
<http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html#111160>
- Login to the WebLogic console to confirm there are no changes in **Pending Activation** status.
- Start the Node Manager, if not already running.
- Restart the Enterprise Manager and the WebLogic Admin server.
- Make sure the WebLogic Admin server, SOA server, and Node Manager are up and running.

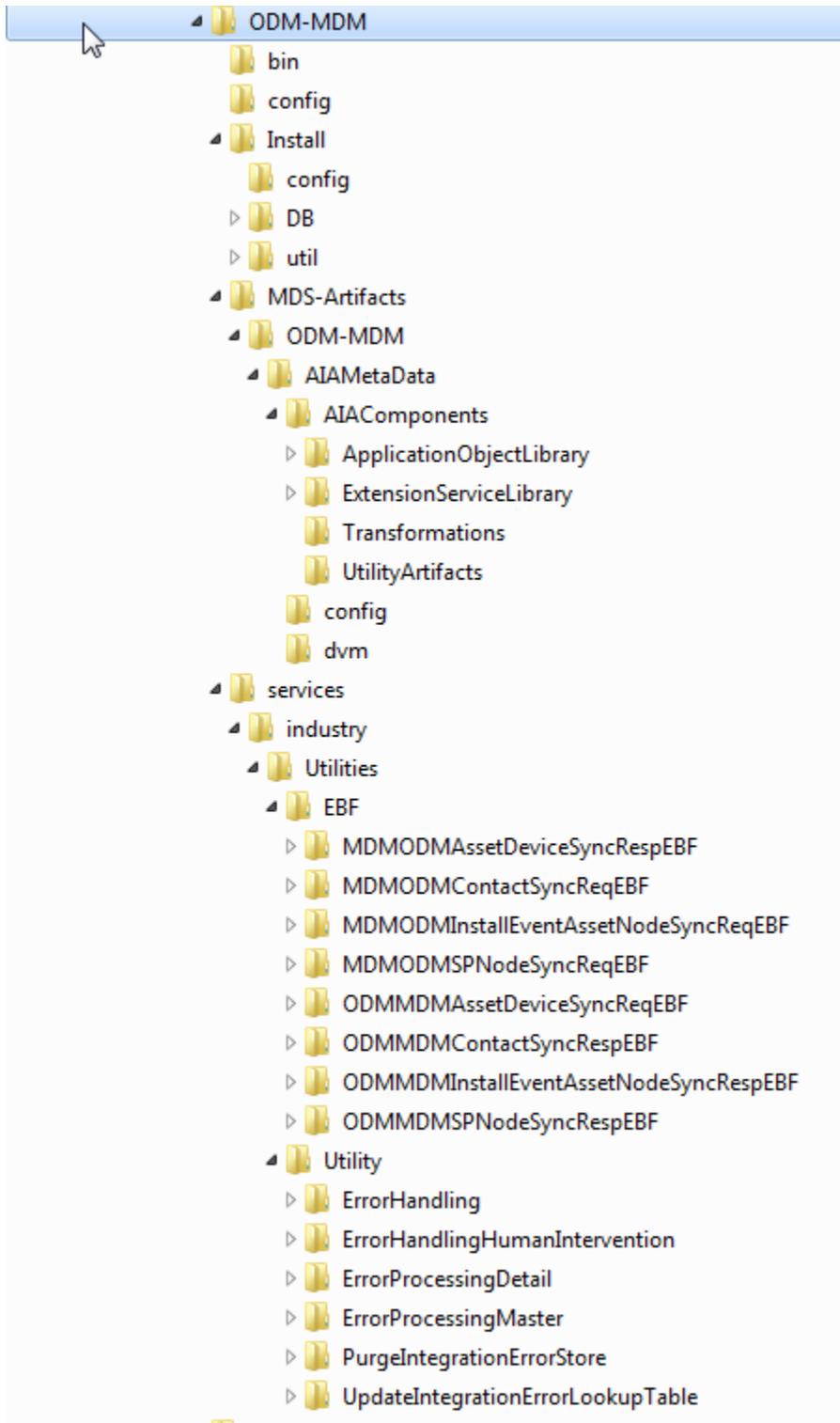
Installation Steps

Perform and complete the following installation steps:

1. Download the installation zip file from Oracle Software Delivery Cloud (<https://edelivery.oracle.com>).

Note: For specific instructions about installing this integration on non-Windows/ Linux platforms see **Oracle Support Knowledge article ID 1349320.1**.

2. Extract the zip file to get the installation folder.
This folder includes subfolders such as bin, config, Install, MDS-Artifacts, and services.



Set the following environment variables for Unix and Windows OS:

Variable	Example
Unix/Linux and Windows OS	
SOA_HOME	XXX/Middleware/Oracle_SOA1
ORACLE_HOME	XXX/Middleware/Oracle_SOA1
MW_HOME	XXX/Middleware
WL_HOME	XXX/Middleware
PRODUCT_HOME	Directory where ODM-MDM.zip is extracted. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/ODM-MDM Windows: PRODUCT_HOME=D:\Oracle\ODM-MDM

Note: The syntax for PRODUCT_HOME changes depending on whether you are installing on Linux or Windows.

The following sections refer to this as \$PRODUCT_HOME in Linux and it should be referred to as %PRODUCT_HOME% in Windows. If you are using Windows, replace \$PRODUCT_HOME with %PRODUCT_HOME% throughout the document.

The following commands (setWLSEnv.sh on Linux and setWLSEnv.bat on Windows) set the environment variables used for executing the installation scripts.

- Unix/ Linux:
source "\${WL_HOME}/wlserver_10.3/server/bin/setWLSEnv.sh"
 - Windows:
cd %WL_HOME%\wlserver_10.3\server\bin\
setWLSEnv.cmd
3. Modify the \$PRODUCT_HOME\config\InstallProperties.xml file and ensure that the values entered are relevant to the server where the integration product has to be installed. Use a text editor to update the InstallProperties.xml file. Login to the WebLogic console to cross verify the values being entered for these properties, as the build might fail due to inappropriate values.
 4. InstallProperties.xml is an XML file. Ensure you follow XML editing standards while editing InstallProperties.xml. All XML elements need to be closed properly. XML element in InstallProperties.xml file does not contain any attribute.

The table below lists the properties available in the InstallProperties.xml file along with their usage. The default values are specified wherever applicable.

Note: Do not delete the ODM-MDM directory. This directory will be used as the download location for patches.

For a Windows installation, when updating any of the properties listed in the table below, add the "/" to the path. For example: C:/ODM-MDM

If install fails because of incorrect values defined in the installProperties.xml file, run uninstall, populate the correct values, and then run install again.

Property	Description	Example
SOA Information		
<config> <ODM-MDM>		
<modulename>	Name of the integration module.	Default: ODM-MDM Do not change this value.
<Workflow.Notification> <from.emailid>	Email ID which should be set in the "From" property of Workflow Notification bean.	
<config> <SOA>		
Admin Server		
<hostname>	Host name of the server where admin server hosting SOA suite is installed.	adminserver.example.oracle.com
<portnumber>	Port number the admin server (hosting SOA suite) is listening to.	7043
<servername>	Admin server name (hosting SOA suite)	AdminServer
<username>	User name used to log in as an Admin server (hosting SOA suite) administrator.	webLogic
<password>	Password used to log in as an Admin server (hosting SOA suite) administrator.	
<domainname>	WebLogic domain name hosting SOA suite.	soa_domain
<ManagedServer>		

Property	Description	Example
<hostname>	Host name of the server where managed server (hosting SOA suite) is installed.	managedserver.example.oracle.com
<portnumber>	Port number the managed server (hosting SOA suite) is listening to.	8043
<servername>	Managed server name (hosting SOA suite)	Managedserver1
<username>	User name used to log in to managed server (hosting SOA suite) as an administrator.	webLogic
<password>	Password used to log in to managed server (hosting SOA suite) as an administrator.	
<mdsconfig>		
<mdsdbusername>	User name used to log in to MDS schema.	XXX_MDS
<mdsdbuserpassword>	Password used to log in to MDS schema.	
<mdsdbhostname>	Host name of the server hosting the database containing MDS schema.	db.hostname.oracle.com
<mdsdbportnumber>	Port number of the database containing MDS schema.	1521
<mdsdbsid>	SID of the database containing MDS schema.	SID
Schema Information		
<config>		
<EH>		
<dba.dbusername>	User name used to log in as a database administrator (DBA). This database hosts the schema required for ODM-MDM integration.	System
<dba.dbuserpassword>	Password used to log in as a database administrator	

Property	Description	Example
	(DBA). This database hosts the schema required for ODM-MDM integration.	
<dbusername>	User name used to log in to ODM-MDM schema for ODM-MDM integration. This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	ODMMDMDEV
<dbuserpassword>	Password used to log in to ODM-MDM schema for ODM-MDM integration.	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for ODM-MDM integration. If the schema is created manually outside of the installation process, then set this value to "false". Else, set the value to "true", if the installation script should automatically create the schema. Valid values: true or false (this is case sensitive)	true
<dbhostname>	Database host name used for ODM-MDM integration.	db.sample.oracle.com
<dbportnumber>	Database port number used for ODM-MDM integration.	1521
<dbportnumber>	Database port number used for ODM-MDM integration.	1521

NOTE: If all the queues (ODM and MDM queues) are hosted in one managed server (example: SOA Server), then the ODM, MDM, and SOA server information will be exactly the same. It is recommended to put all the queues in the integration managed server.

If the `dbuser.createflag` is set to `false`, the schema needed for ODM-MDM integration error handling will not be automatically created by the install. The schema needs to be created manually before running the install. When creating the user manually, grant connect and resource to the user.

Also note the following:

- `$PRODUCT_HOME\Install\util\ant` folder contains all the ant build scripts.
- `$PRODUCT_HOME\bin\InstallBuild.xml` is used to install ODM-MDM integration code.
- `$PRODUCT_HOME\bin\UnInstallBuild.xml` is used to uninstall ODM-MDM integration code.
- `$PRODUCT_HOME\bin\DeployUndeployUtility.xml` is used to deploy/ undeploy individual composite/ MDS folder and then restart the managed server.
- Installation/ uninstallation process can go on for long. Be patient till the installation is completed.

Installing the Integration

After setting the environment variables, open the Command prompt window and execute the following installation scripts in Linux and Windows respectively.

- Linux:

```
cd $PRODUCT_HOME/bin
ant -f InstallBuild.xml Install
-DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f InstallBuild.xml Install
-DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml
```

During the execution, the following tasks are performed and then the installation is complete.

- Creates database objects required for the Error Handling module.
- Creates JDBC Data Source for the Error Handling Module.
- Creates JMS server/ JMS module/ JMS connection pool/ JMS persistence store/ JMS queues and assigns error queues to the interface queues.
- Deploys `JmsAdapter_ODMMDM.rar` file that contains JMS outbound connections for both Oracle Utilities Operational Device Management and Oracle Utilities Meter Data Management.
- Deploys `DbAdapter_ODMMDM.rar` file that contains JMS outbound connections for both Oracle Utilities Operational Device Management and Oracle Utilities Meter Data Management.
- Updates MDS repository with all the artifacts.
- Creates the application partition where the composites are going to be deployed. For example: ODM-MDM
- Compiles and then deploys all the composites to the Enterprise Manager.

Post-Installation Checklist

After running the installation scripts, you must complete the following tasks to finalize the installation.

- Restart the WebLogic Admin server and the SOA server.
- This task activates the processes that require a restart after installation and ensures that the installation of all artifacts is successful.
- Review the logs under `$WL_HOME/user_projects/domains/soa_domain/servers/soa_server1/logs` to check for deployment errors.
- Verify that all JMS and JDBC resources were created.
- Verify composites in the Enterprise Manager.

Verifying JMS and JDBC Configuration

Perform the following steps for verifying JMS and JDBC configuration:

1. Open a WebLogic Admin console and navigate to **Home** → **JMS Modules** → **ODMMDMJMSModule** → **MDMDeviceSyncRequest** or any other queue.
5. Select the **Monitoring** tab and verify that the screen appears exactly as shown below.

Home > JMS Modules > ODMMDMJMSModule > MDMContactSyncRequest > ODMMDMJMSModule > MDMDeviceSyncRequest

Settings for MDMDeviceSyncRequest

Configuration **Monitoring** Control Security Subdeployment Notes

A JMS destination identifies a queue (Point-To-Point) or a topic (Pub/Sub) that is targeted to a JMS server.
This page summarizes the active JMS destinations that have been created for this JMS module.

[Customize this table](#)

Destinations (Filtered - More Columns Exist)

Show Messages Showing 1 to 1 of 1 Previous | Next

Name	Messages Current	Messages Pending	Messages Total	Consumers Current	Consumers High	Consumers Total	Messages High
ODMMDMJMSModule!MDMDeviceSyncRequest	0	0	12	5	5	5	3

Show Messages Showing 1 to 1 of 1 Previous | Next

If you do not see the `JMSMODULENAME!JMSQUEUENAME` row in **Destinations** table, it means there are some issues or problems with the installation.

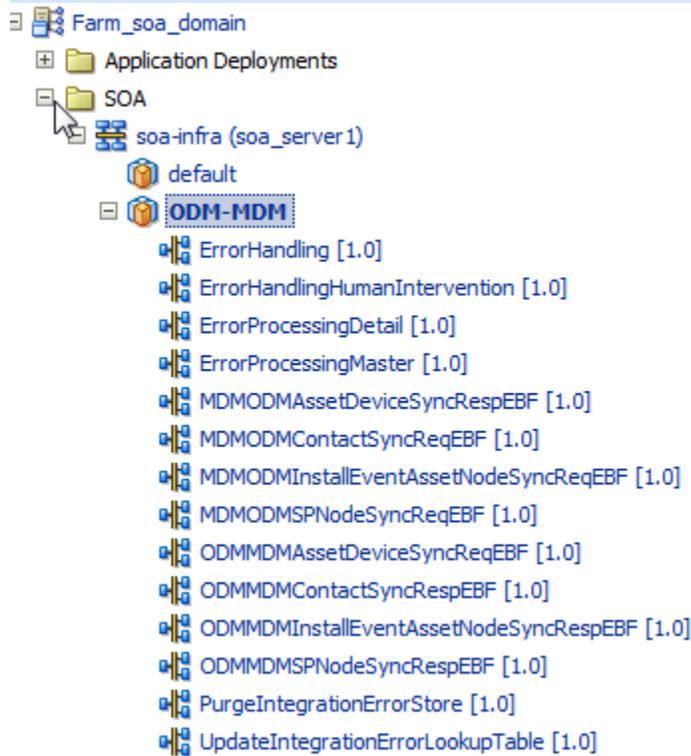
1. Select **Services** → **Persistent Stores** → **ODMMDMFileStore**.
2. Verify that the `JMSFileStorePath` is correct and the directory has 'write' permissions.
3. Open the weblogic Admin Console and navigate to **Home** → **Deployments**. Verify if `JmsAdapter_ODMMDM.rar` and `DbAdapter_ODMMDM.rar` are deployed and state is `Acitve`.

Verifying Composites in Enterprise Manager

Verify that the ODM-MDM partition was created with all the composites deployed.

Perform the following steps:

1. Login to the Enterprise Manager console.
2. Expand **Farm_soa_domain** → **soa** → **soa-infra** → **ODM-MDM** partition.
3. Verify that all the composites are deployed and are in an active state.



Configuring Edge Applications

Configure Oracle Utilities Operational Device Management and Oracle Utilities Meter Data Management installation according to the guidelines in the Oracle Utilities Integration for Device Operations Implementation Guide.

Deploying/ Undeploying Individual Composites

This section describes how to deploy/ undeploy individual composites for incremental builds or patches.

Undeploying Composites

If the composite being deployed involves changes made to the MDS artifacts, you must first undeploy the composite.

Perform the following steps:

1. Open a Command prompt and execute the following commands for Linux and Windows respectively:

- Linux:

```
cd $PRODUCT_HOME/bin
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml
UnDeployComposite
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f %PRODUCT_HOME%/Install/util/ant/DeployUndeployUtility.xml -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml UnDeployComposite
```

2. Validate the following parameters when prompted with default values during deployment. Press ENTER to use the default prompted value.

- **Composite Name:** Name of the composite to be undeployed to SOA server. This parameter does not have a default value.
- Composite folder location: The folder name should be an absolute path, beginning with <PRODUCT_HOME>/services/industry/Utilities/<EBF/utility>.

For example: If you are planning to undeploy the composite from <PRODUCT_HOME>/services/industry/Utilities/EBF, then pass <PRODUCT_HOME>/services/industry/Utilities/EBF to this property.

The default value for this property is %PRODUCT_HOME%/services/industry/Utilities/EBF, as most of the business-specific composites reside in this folder.

- **Partition Name:** The SOA partition name to which the composite should be undeployed.

2. Enter the composite name to be undeployed from the partition.

Deploying Individual Composites

Deploy individual composites by performing the following steps:

1. Open a Command prompt and execute the following commands for Linux and Windows respectively:

- Linux:

```
cd $PRODUCT_HOME/bin
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml
DeployComposite
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f %PRODUCT_HOME%/bin/DeployUndeployUtility.xml -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml
DeployComposite
```

2. Validate the following parameters when prompted with default values during deployment. Press **ENTER** to use the default prompted value.

- **Composite Name:** Name of the composite to be deployed to SOA server. This parameter does not have a default value.
- **Composite folder location:** The folder name should be an absolute path beginning with %PRODUCT_HOME%/services/industry/Utilities/EBF/. For example: If you are planning to deploy the composite from

```
%PRODUCT_HOME%/services/industry/Utilities/EBF, then pass
%PRODUCT_HOME%/services/industry/Utilities/EBF to this property
```

If you are planning to deploy the composite from Error Handling then

```
%PRODUCT_HOME%/services/industry/Utilities/Utility
```

The default value for this property is %PRODUCT_HOME%/services/industry/Utilities/EBF. Most of the business-specific composites reside in this folder.

- **Partition Name:** The SOA partition name to which the composite should be deployed. Enter the composite name to be deployed from the partition.

For example: MDMODMSPNodeSyncReqEBF

Note: Refer to [Verifying Composites in Enterprise Manager](#) section to see the composites for ODM-MDM.

Deploying and Undeploying MDS Folders

This section describes how to deploy/ undeploy individual MDS folders for incremental builds or patches.

The following topics are discussed here:

- [Undeploying MDS Folder](#)
- [Deploying the MDS Folder](#)

Undeploying the MDS Folder

To undeploy a particular folder from MDS, execute the following commands and then pass the folder name to be undeployed.

1. Open a Command prompt and execute the following commands for Linux and Windows respectively. These commands undeploy a folder under \$PRODUCT_HOME/MDS-Artifacts from the MDS repository.

- Linux:

```
cd $PRODUCT_HOME\bin
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml UnDeployMDS
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f %PRODUCT_HOME%/Install/util/ant/DeployUndeployUtility.xml -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml UnDeployMDS
```

2. Validate the following parameters when prompted with default values during undeployment. Press ENTER to use the default prompted value.

- SOA Server Hostname: Host name of the server hosting SOA server. By default, it selects the managed server host name which is passed as InstallProperties property in ant command.
- SOA Server Portnumber: Port number of the server hosting SOA server. By default, it selects the managed server port number which is passed as InstallProperties property in ant command.
- SOA Server Username: User name used to connect to SOA server. By default, it selects the managed server user name which is passed as InstallProperties property in ant command.
- SOA Server Password: Password used to connect to SOA server. By default, it selects the managed server password which is passed as InstallProperties property in ant command.
- MDS Folder Name: Name of the folder to be undeployed from MDS repository.
- The folder name should be a relative path inside %PRODUCT_HOME%/MDS-Artifacts, beginning with ODM-MDM.

For example: To undeploy %PRODUCT_HOME%/MDS-Artifacts/ODM-MDM/AIAMetaData/dvm pass ODM-MDM/AIAMetaData/dvm as the MDS folder name.

Note: Use this command to perform only folder-level undeployment. The command does not support file-level undeployment.

Deploying the MDS Folder

To Deploy the MDS folder, perform the following steps:

1. Open a Command prompt and execute the following commands in Linux and Windows respectively:

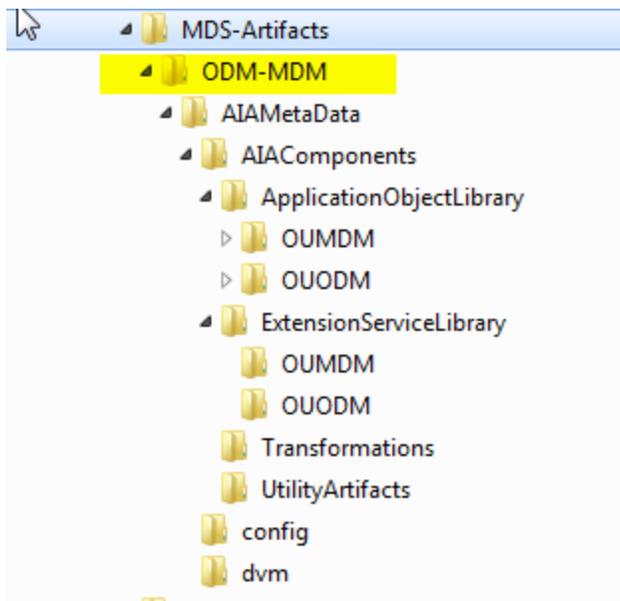
- Linux:

```
cd $PRODUCT_HOME\\bin
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml DeployMDS
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f %PRODUCT_HOME%/Install/util/ant/DeployUndeployUtility.xml -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml DeployMDS
```

- Validate the following parameters when prompted with default values during deployment. Press ENTER to use the default prompted value.
 - SOA Server Hostname:** Host name of the server hosting SOA server. By default, it selects the managed server host name which is passed as InstallProperties property in ant command.
 - SOA Server Portnumber:** Port number of the server hosting SOA server. By default, it selects the managed server port number which is passed as InstallProperties property in ant command.
 - SOA Server Username:** User name used to connect to SOA server. By default, it selects the managed server user name which is passed as InstallProperties property in ant command.
 - SOA Server Password:** Password used to connect to SOA server. By default, it selects the managed server password which is passed as InstallProperties property in ant command.
 - MDS Folder Name:** Name of folder to be deployed from MDS repository. The folder name should be a relative path inside **%PRODUCT_HOME%/MDS-Artifacts**, beginning ODM-MDM. Under the ODM-MDM folder is the MDS-Artifacts subfolder which contains all the files that can be deployed to MDS.



- DVM changes:** When new DVM values are added to a DVM file(s), the DVM folder must be updated in MDS. This command will not only deploy the file(s) that were changed but the whole DVM folder. Pass ODM-MDM/AIAMetaData/dvm as the MDS folder name and it will deploy the

whole DVM folder to MDS.

- **Custom schema changes:** If custom elements are added to the ODM or MDM schema or both ODM and MDM schemas, the ApplicationObjectLibrary folder must be updated in MDS. Pass **ODM-MDM/AIAMetaData/ApplicationObjectLibrary** to deploy the whole ODM and MDM schema folders or pass **ODM-MDM/AIAMetaData/ApplicationObjectLibrary/OUODM** to deploy only the ODM schema folder or change OUODM and put OUMDM to deploy only the MDM schema folder.
- **Concrete WSDL changes for extensions:** If extension service needs to be called by a process and the concrete WSDL is updated, the ExtensionServiceLibrary folder must be updated in MDS. Pass **ODM-MDM/AIAMetaData/ExtensionServiceLibrary** to deploy the whole ODM and MDM extension service library folders or pass **ODM-MDM/AIAMetaData/ApplicationObjectLibrary/OUODM** to deploy only the ODM extension library folder or change OUODM and put OUMDM to deploy only the MDM extension service library.

Note: Use this command to perform only folder-level deployment. The command does not support file-level deployment.

Restarting the SOA Managed Server

This section describes how to restart the WebLogic managed server hosting the SOA suite.

1. Open a Command prompt and execute the following commands in Linux and Windows:

- Linux:

```
cd $PRODUCT_HOME\ cd $PRODUCT_HOME/bin
ant -f $PRODUCT_HOME/bin/DeployUndeployUtility.xml -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml RestartManagedServer
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f %PRODUCT_HOME%/Install/util/ant/DeployUndeployUtility.xml -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml RestartManagedServer
```

2. Validate the following parameters when prompted with default values during deployment. Press ENTER to use the default prompted value.
 - **Admin Server Hostname:** Host name of the server hosting Admin server. By default, it selects the Admin Server host name which is passed as InstallProperties property in ant command.
 - **Admin Server Portnumber:** Port number of the server hosting Admin server. By default, it selects the Admin Server port number which is passed as InstallProperties property in ant command.
 - **Admin Server Username:** User name used to connect to Admin server. By default, it selects the

Admin Server user name which is passed as InstallProperties property in ant command.

- **Admin Server Password:** Password used to connect to Admin server. By default, it selects the Admin Server password which is passed as InstallProperties property in ant command.
- **Managed Server Name to be restarted:** The default value is selected from InstallProperties property.

Uninstalling Integration

To uninstall the integration, perform the following steps:

1. Restart the WebLogic Admin server and the SOA server.
2. Set the environment variables as mentioned above in the [installation steps](#).
3. Open a Command prompt and execute the following commands in Linux and Windows respectively:

- Linux:

```
cd $PRODUCT_HOME/bin
ant -f UnInstallBuild.xml UnInstall -
DInstallProperties=$PRODUCT_HOME/config/InstallProperties.xml -l UnInstall.log
```

- Windows:

```
cd %PRODUCT_HOME%\bin
ant -f UnInstallBuild.xml UnInstall -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -l UnInstall.log
```

These commands perform the following tasks which delete everything from the server related to ODM-MDM.

- Undeploys all composites from the Enterprise Manager partition.
- Deletes the partition.
- Undeploys MDS artifacts.
- Deletes JMS resources (JMS module/ JMS persistent store/ JMS server).
- Undeploys JMS outbound connection pool.
- Undeploys database outbound connection pool.
- Deletes JDBC data source for Error Handling module.
- Drops database objects created for Error Handling module.

Note: After a successful uninstall, all JMS and JDBC resources and ODM-MDM partitions created during installation are deleted.