

**Oracle® Utilities Customer Care
and Billing Integration to Oracle
Utilities Meter Data Management
Release 3.1.1 Media Pack**

Installation Guide

Oracle Utilities Meter Data Management v2.0.1.1
Oracle Utilities Customer Care and Billing v2.3.1.1

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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 Customer Care and Billing.

Additional Resources

For more information read the following documents:

Resource	Location
Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 Media Pack 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	Refer to Oracle Utilities Meter Data Management installation documentation located on e-delivery.
Oracle Utilities Customer Care and Billing Installation Guide for Release v2.3.1	Refer to Oracle Utilities Customer Care and Billing installation documentation located on e-delivery.

Abbreviations

CCB - Oracle Utilities Customer Care and Billing

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 Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 Media Pack. Complete these installation steps prior to 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 Customer Care and Billing – Application version v2.3.1 installed on an Oracle database with the following updates:

- Service Pack 1 (patch 11675360)
 - Roll-up patch 11825915
 - Patch 11833102
- Oracle Utilities Meter Data Management – Application version v2.0.1 installed on an Oracle database with the following updates:
 - Service Pack 1 (patch 11826071)
 - Patch 11856426
 - Patch 11807916
 - Patch 11807599
- SOA11g / Oracle Enterprise Manager 11.1.1.4.0 on WebLogic Server 10.3.4.

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

Pre-Installation Tasks

The following tasks should be completed before you install the Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 Media Pack.

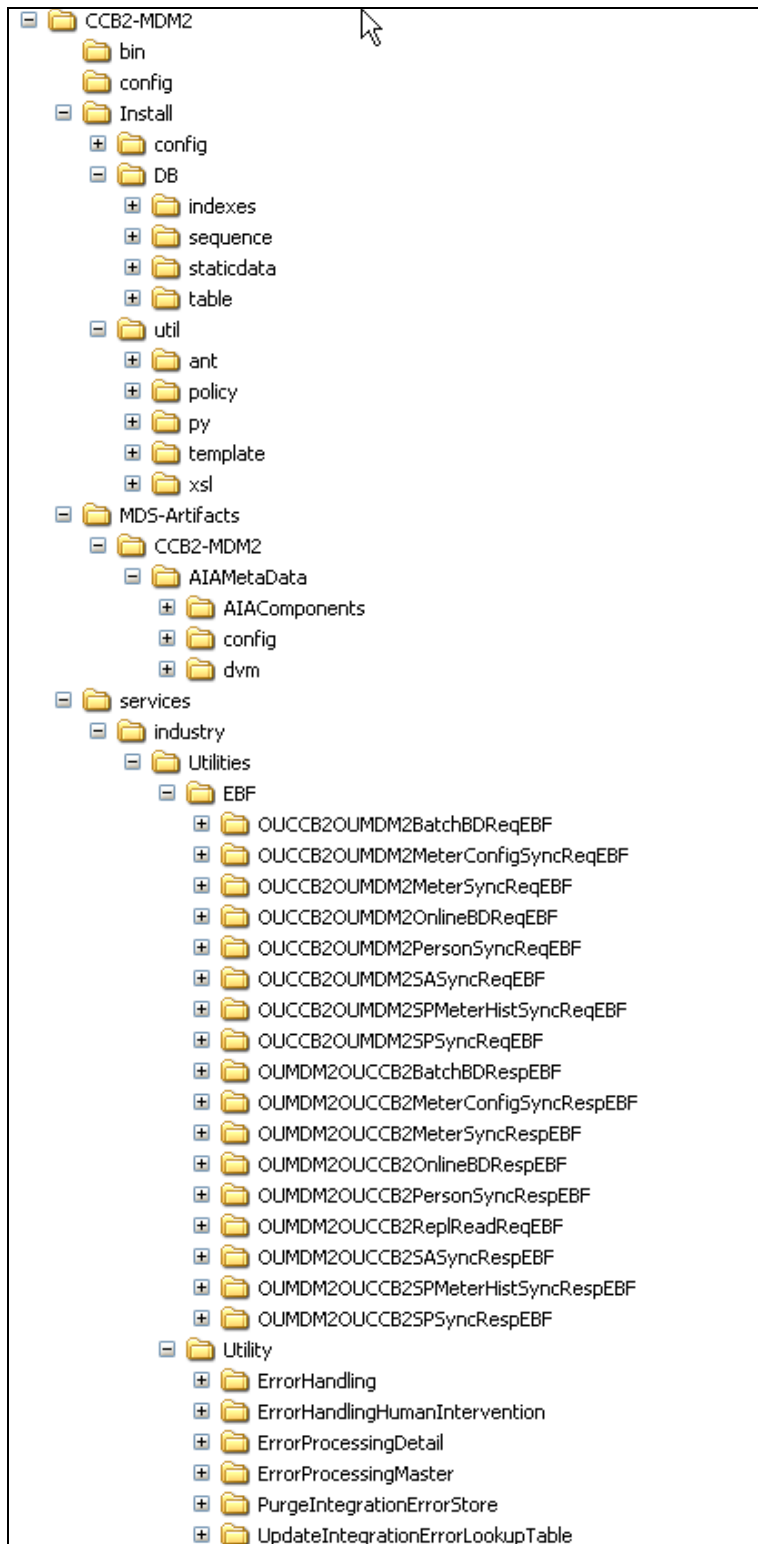
- Ensure that Oracle SOA Suite 11gR1 PS3 (11.1.1.4.0) is installed and running. For more information, refer to the documentation at <http://www.oracle.com/technetwork/middleware/soasuite/documentation/index.html#111130>
- Login to the WebLogic console to confirm there are no changes in Pending Activation status.
- Start Node Manager.
- 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

1. Download the installation zip file from e-delivery (<http://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.



3. 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 CCB2-MDM2.zip is extracted. Example: Unix/Linux: PRODUCT_HOME=/slot/oracle/CCB2-MDM2 Windows: PRODUCT_HOME=D:\Oracle\CCB2-MDM2

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

4. 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.

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 following table 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 CCB2-MDM2 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:/CCB2-MDM2

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
<config> <CCB-MDM2>			
	<modulename>	Name of the integration module.	Default: CCB2-MDM2 Do not change this value.
	<Workflow.Notification> <from.emailid>	Email ID which should be set in the "From" property of Workflow Notification bean.	
Server Information where CCB Queues are hosted If the CCB queues are hosted on the integration server, the server information for this section will be the same as the SOA information section. If the queues are hosted on a different managed server, provide the managed server information.			
	<CCB> <AdminServer>		
	<hostname>	Host name of the server where admin server is installed.	adminserver.example.oracle.com
	<portnumber>	Port number the admin server is listening to.	7043
	<servername>	Admin server name	AdminServer
	<username>	User name used to log in as an Admin server administrator.	WebLogic
	<password>	Password used to log in as an Admin server administrator.	
	<CCB> <ManagedServer>		
	<hostname>	Host name of the server where managed server is installed.	managedserver.example.oracle.com
	<portnumber>	Port number the managed server is listening to.	8043
	<servername>	Managed server name	Managedserver1

Property		Description	Example
	<username>	User name to log in as a managed server administrator.	WebLogic
	<password>	Password to log in as a managed server administrator.	
	<CCB> <JMS>		
	<serverName>	<p>Server name hosting the JMS queue.</p> <p>If CCB and MDM queues are hosted and targeted on a WebLogic domain hosting SOA suite, then do not change this value.</p> <p>If CCB and MDM queues are on a different WebLogic domain, then this value should be unique across domains.</p> <p>For more details, refer to the WebLogic Administrator Guide.</p>	Default: CCB2MDM2JS
	<ModuleName>	Module name hosting the JMS queue.	<p>Default: CCB2MDM2JM</p> <p>Do not change this value.</p>
	<SubDeploymentName>	Sub deployment name for JMS queues	<p>Default : CCB2MDM2SD</p> <p>Do not change this value.</p>
	<TargetServerName>	<p>WebLogic managed server name.</p> <p>This property is usually same as ManagedServer_servername.</p>	
	<PersistentStoreName>	JMS persistent store name	Default: CCB2MDM2FS
	<PersistentStoreType>	<p>JMS persistent store type (FileStores or DBStore)</p> <p>Deployment script supports a file based persistent store.</p>	Default: FileStores
	<PersistentStoreFilename>	Directory path name where file persistent store should be created.	D:/CCB2-DM2/CCB2-MDM2
<p align="center">Server Information where MDM Queues are hosted</p> <p>If the MDM queues are hosted on the integration server, the server information for this section will be the same as the SOA information section. If the queues are hosted on a different managed server, provide the managed server information.</p>			
	<MDM>		
	<AdminServer>		

Property		Description	Example
	<hostname>	Host name of the server where admin server is installed.	adminserver.example.oracle.com
	<portnumber>	Port number the admin server is listening to.	7043
	<servername>	Admin server name	AdminServer
	<username>	User name used to log in as an Admin server administrator.	WebLogic
	<password>	Password used to log in as an Admin server administrator.	
<MDM> <ManagedServer>			
	<hostname>	Host name of server where managed server is installed.	managedserver.example.oracle.com
	<portnumber>	Port number the managed server is listening to.	8043
	<servername>	Managed server name	Managedserver1
	<username>	User name used to log in as a managed server administrator.	WebLogic
	<password>	Password used to log in as a managed server administrator.	
<MDM> <JMS>			
	<serverName>	JMS server name Do not change this value if CCB and MDM queues are hosted and targeted on the same WebLogic domain hosting the SOA suite. If CCB and MDM queues are on a different WebLogic domain, then this value should be unique across domains. For more details, refer to WebLogic Administrator Guide .	Default: CCB2MDM2JS
	<ModuleName>	JMS module name	Default: CCB2MDM2JM Do not change this value.
	<SubDeploymentName>	Sub deployment name for JMS queues	Default : CCB2MDM2SD Do not change this value.

Property		Description	Example
	<TargetServerName>	WebLogic managed server name. Usually, this value is same as the property given below. <config> <CCB-MDM2> <MDM> < ManagedServer> <servername>	
	<PersistentStoreName>	JMS persistent store name	Default: CCB2MDM2FS
	<PersistentStoreType>	JMS persistent store type (FileStores or DBStore) Deployment script supports a file based persistent store.	Default: FileStores
	<PersistentStoreFilename>	Directory path name where the file based persistent store should be created.	D:/CCB2-DM2/CCB2-MDM2
SOA Information			
<config> <SOA>			
	<AdminServer>		
	<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 CCB2-MDM2 integration.	System
	<dba.dbuserpassword>	Password used to log in as a database administrator (DBA). This database hosts the schema required for CCB2-MDM2 integration.	

Property	Description	Example
<dbusername>	User name used to log in to CCB2-MDM2 schema for CCB2-MDM2 integration. This user can be automatically created by the install (set dbuser.createflag to true) or manually outside the install process.	CCB2MDM2
<dbuserpassword>	Password used to log in to CCB2-MDM2 schema for CCB2-MDM2 integration.	
<dbuser.createflag>	Flag specifying whether to create a new schema or use the existing schema for CCB2-MDM2 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 CCB2-MDM2 integration.	Db.sample.oracle.com
<dbportnumber>	Database port number used for CCB2-MDM2 integration.	1521
<dbsid>	Database SID used for CCB2-MDM2 integration.	SID

NOTE: If all the queues (CCB and MDM queues) are hosted in one managed server (example: SOA Server), then the CCB, 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 CCB2-MDM2 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 CCB2-MDM2 integration code.
- \$PRODUCT_HOME\bin\UnInstallBuild.xml is used to uninstall CCB2-MDM2 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 a Command prompt 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 -I
InstallBuild.log
- Windows:
cd %PRODUCT_HOME%\bin
ant -f InstallBuild.xml Install -
DInstallProperties=%PRODUCT_HOME%/config/InstallProperties.xml -I
InstallBuild.log

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 DataSource for the ErrorHandling Module.
- Creates outbound connection pool instance for the database by updating the DBAdapter.rar file.
- Creates JMS server/ JMS module/ JMS connection pool/ JMS persistence store/ JMS queues and assigns error queues to the interface queues.
- Creates JMS outbound connections for both Oracle Utilities Customer Care and Billing and Oracle Utilities Meter Data Management by updating the JMSAdapter.rar file.
- Updates MDS repository with all the artifacts.
- Creates the application partition where the composites are going to be deployed. For example: CCB2-MDM2
- Compiles/ packages 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

1. Open a WebLogic Admin console and navigate to **Home** → **JMS Modules** → **CCB2MDM2JM** → **OUCCB2BatchBDRequest** or any other queue.
2. Select the **Monitoring** tab and verify that the screen appears exactly as shown below.

Settings for OUCCB2BatchBDRequest

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

<input type="checkbox"/> Name	Messages Current	Messages Pending	Messages Total	Consumers Current	Consumers High	Consumers Total	Messages High
<input type="checkbox"/> CCB2MDM2JM!OUCCB2BatchBDRequest	0	0	1	10	10	10	1

Show Messages

Showing 1 to 1 of 1 Previous Next

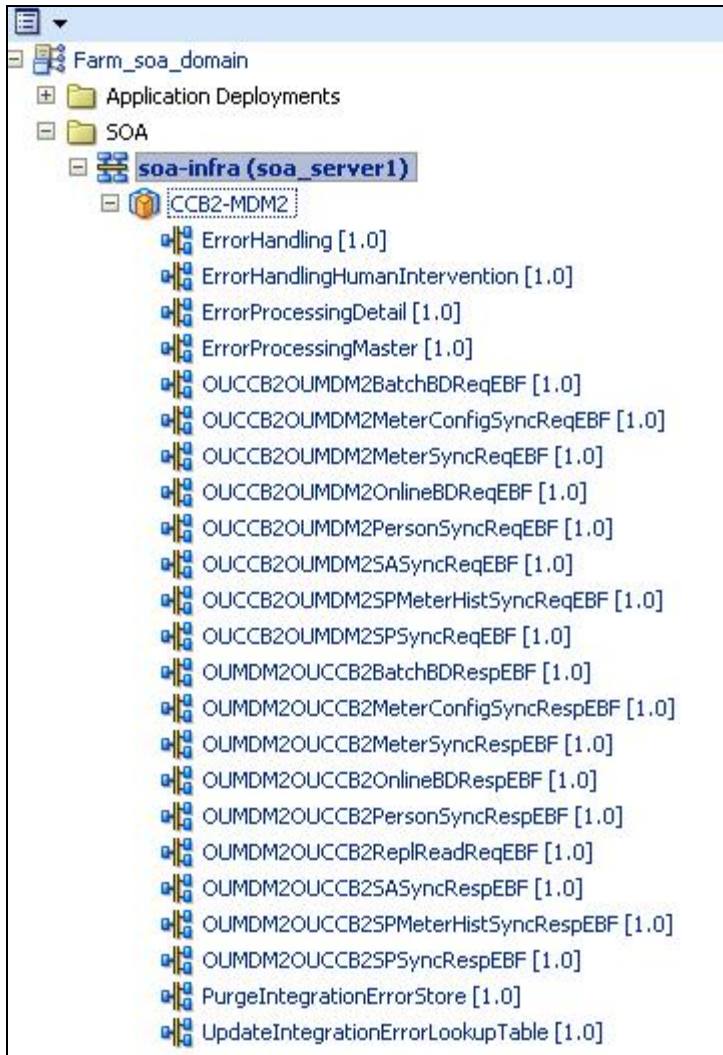
If you do not see the JMSMODULENAME!JMSQUEUENAME row in **Destinations** table, it means there are problems with the installation.

3. Select **Services** → **Persistent Stores** → **CCB2MDM2FS**.
4. Verify that the JMSFilePath is correct and the directory has 'write' permissions.

Verifying Composites in Enterprise Manager

Verify that the CCB2-MDM2 partition was created with all the composites deployed.

1. Login to Enterprise Manager.
2. Expand **Farm_soa_domain** → **soa** → **soa-infra** → **CCB2-MDM2** partition.
3. Verify that all the composites are deployed and are in an active state.



Configuring Edge Applications

Configure Oracle Utilities Customer Care and Billing and Oracle Utilities Meter Data Management installation according to the guidelines in the **Oracle Utilities Customer Care and Billing Integration to Oracle Utilities Meter Data Management Release 3.1.1 Media Pack 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.

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

```
cd $PRODUCT_HOME/bin  
ant -f $PRODUCT_HOME/Install/util/ant/DeployUndeployUtility.xml -  
DInstallProperties=$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.
 - **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.
 - **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.
3. Enter the composite name to be undeployed from the partition.

Deploying Individual Composites

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

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

```
cd %PRODUCT_HOME%\bin  
  
ant -f %PRODUCT_HOME%/Install/util/ant/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.
 - **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.
 - **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/utility>**.

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.

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

For example: OUCCB2OUMDM2OnlineBDRequestEBF

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

Deploying/ Undeploying MDS Folder

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

Undeploying 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 $PRODUCT_HOME/Install/util/ant/DeployUndeployUtility.xml -  
DInstallProperties=$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 CCB2-MDM2.

For example: To undeploy **%PRODUCT_HOME%/MDS-Artifacts/CCB2-MDM2/AIAMetaData/dvm** pass **CCB2-MDM2/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 MDS Folder

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

```
cd $PRODUCT_HOME/bin  
ant -f $PRODUCT_HOME/Install/util/ant/DeployUndeployUtility.xml -  
DInstallProperties=$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
```
2. 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

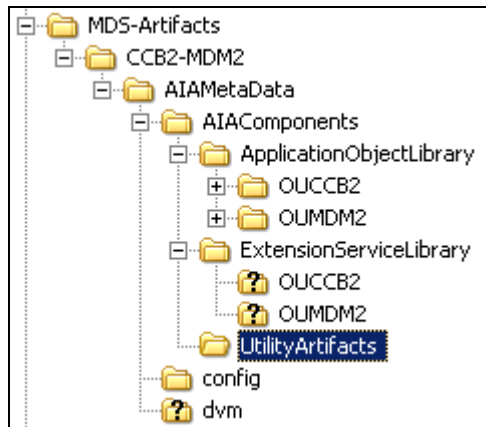
command.

- **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 CCB2-MDM2.

Some examples of deploying to MDS:

Under the CCB2-MDM2 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 **CCB2-MDM2/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 CCB or MDM schema or both CCB and MDM schemas, the ApplicationObjectLibrary folder must be updated in MDS. Pass **CCB2-MDM2/AIAMetadata/ApplicationObjectLibrary** to deploy the whole CCB and MDM schema folders or pass **CCB2-MDM2/AIAMetadata/ApplicationObjectLibrary/OUCCB2** to deploy only the CCB schema folder or change OUCCB and put OUMDM2 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 **CCB2-MDM2/AIAMetaData/ExtensionServiceLibrary** to deploy the whole CCB and MDM extension service library folders or pass **CCB2-MDM2/AIAMetaData/ApplicationObjectLibrary/OUCCB2** to deploy only the CCB extension library folder or change OUCCB and put OUMDM2 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 SOA Managed Server

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

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

- Linux:

```
cd $PRODUCT_HOME/bin
```

```
ant -f $PRODUCT_HOME/Install/util/ant/DeployUndeployUtility.xml -  
DInstallProperties=$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

If you need to uninstall the integration, complete the following:

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 CCB2-MDM2.

- 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.

After a successful uninstall, all JMS and JDBC resources and CCB2-MDM2 partitions created during installation are deleted.