FLEXCUBE UBS Outbound Application
Adapter Installation
Oracle FLEXCUBE Universal Banking
Release 12.2.0.0.0

[May] [2016]



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# 1. Installation Steps

# 1.1 Prerequisite

✓ Ensure that the basic NOTIFY MDB Gateway Environment Setup is done.

[Please refer <u>GW\_NOTIFY\_MDB Installation.doc.</u>]

✓ Ensure that the basic Adapter Environment Setup is done.

[Please refer <u>SSIAD\_Installation\_FCUBSV.UM8.0.0.0.0.0.0.0Lot1.doc.</u>]

# 1.2 Steps

## A. Modify ejb-jar.xml

✓ Edit <KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/config/ejb-jar.xml. This XML file shall have a similar section as the one shown below,

```
<env-entry>
  <env-entry-name>propertyPath</env-entry-name>
  <env-entry-type>java.lang.String</env-entry-type>
  <env-entry-value>C:/Documents and Settings/SSI_ADAPTER/</env-entry-value>
</env-entry>
```

Set the location of the properties file SSIAD\_MDB\_Prop.xml as the value of propertyPath.

E.g.: C:/Documents and Settings/ SSI\_ADAPTER /

[NOTE: Give property file path with forward slash (/) as file separator and remember to give a slash at the end.]



✓ Edit <resource-env-ref> section as the one shown below,

```
<resource-ref>
         <description>Connection Factory for Response / DLQ</description>
         <res-ref-name>SSIAD_MDB_QCF</res-ref-name>
         <res-type>javax.jms.XAQueueConnectionFactory</res-type>
         <res-auth>Container</res-auth>
         <res-sharing-scope>Shareable</res-sharing-scope>
</resource-ref>
<resource-env-ref>
         <description>Queue to send reply to</description>
         <resource-env-ref-name>NOTIFY_DEST_QUEUE</resource-env-ref-name>
         <resource-env-ref-type>javax.jms.Queue</resource-env-ref-type>
</resource-env-ref>
<resource-env-ref>
         <description>MDB Dead Letter Queue</description>
         <re>ource-env-ref-name>NOTIFY_MDB_DLQ</resource-env-ref-name>
         <resource-env-ref-type>javax.jms.Queue</resource-env-ref-type>
</resource-env-ref>
```

# **B.** Configure FLEXCUBE UBS MDB Adapter Properties

Edit < KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/config/SSIAD\_MDB\_Prop.xml file to give appropriate values for the properties as described below,

XSD\_PATH: This property specifies the path where the BaExchangeFileRequest.XSD is stored.

e.g. XSD\_PATH=<KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/XSD/



- 2. SSI\_MDB\_XSD: This property specifies the name of the XSD file.
  - e.g. SSI\_MDB\_XSD = BaExchangeFileRequest.XSD
- 3. IS\_XSD\_VAL\_REQD This property specifies whether XSD validation should be done or not . To enable XSD validation specify "Y" and to disable specify "N".
  - 4. FCUBS\_DB\_SERVER\_IP: This property defines FCUBS Database server IP address.
  - 5. FCUBS\_DB\_SERVER\_UID: This property defines user id for FCUBS Database server.
  - FCUBS\_DB\_SERVER\_PWD: This property defines password for FCUBS Database server.
  - FCUBS\_DB\_PAYLOAD\_PATH: This property defines payload file path on FCUBS Database server.
  - 8. SSIAD\_EJB\_MH\_IP: This property defines SSI MH server IP address.
  - 9. SSIAD\_EJB\_MH\_USERID: This property defines user id for SSI MH server.
  - 10. SSIAD\_EJB\_MH\_PASSWORD: This property defines password for SSI MH server.



- SSIAD\_EJB\_MH\_ENVELOPE: This property defines envelope file path on SSI MH
   Server
- SSIAD\_MH\_PAYLOAD\_PATH: This property defines payload file path on SSI MH server.
- SSIAD\_OB\_ENVELOPE\_FILE\_FOLDER: This property defines local folder name where temporary envelope file will be stored.
  - eg. SSIAD\_OB\_ENVELOPE\_FILE\_FOLDER = "C:/Documents and Settings/Default

    User/SSIAD\_OB\_ENVELOPE/"

[NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]

- SSIAD\_OB\_ENVELOPE\_FILE\_PREFIX: This property specifies envelope file prefix.
   eg. SSIAD\_OB\_ENVELOPE\_FILE\_PREFIX = "BA".
- SSIAD\_OB\_ENVELOPE\_FILE\_EXTENSION: This property specifies envelope file extension.
  - eg. SSIAD\_OB\_ENVELOPE\_FILE\_EXTENSION =".xml".
- 16. SSIAD\_OB\_ENVELOPE\_FILE\_SAVE\_DATE\_FORMAT: This property specifies envelope file date format tah will be suffixed with SSIAD\_OB\_ENVELOPE\_FILE\_PREFIX.



- eg. SIAD\_OB\_ENVELOPE\_FILE\_SAVE\_DATE\_FORMAT = "yyyyMMddHHMMSSsss".
- 17. SSIAD\_OB\_DEAD\_ENVELOPE\_FILE\_FOLDER: This property defines local folder name where dead envelope file will be stored. This folder must be under USER\_HOME dir.

  eg. SSIAD\_OB\_ENVELOPE\_FILE\_FOLDER = "C:/Documents and Settings/Default

  User/SSIAD\_OB\_DEAD\_ENVELOPE/"

  [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash
- 18. XSL\_PATH: This property specifies the path where the SSIAD\_MDB\_XSL.XSL is stored.
  eg. XSL\_PATH = "<KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/XSL/"
  [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash
- SSIAD\_MDB\_XSL: This property specifies the acknowledgement XSL file name.
   eg. SSIAD\_MDB\_XSL = SSIAD\_MDB\_XSL.xsl
- 20. LOGGER\_PATH: This property specifies the path of the logger property file. This file can be found at <KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/config.
  [NOTE: Give XSD file path with forward slash (/) as file separator and remember to give a slash at the end.]

The SSIAD\_MDB\_Prop.xml will look similar as follows,

at the end.]

at the end.]



```
<add key="XSD_PATH" value="D:/KERNEL_SSIAD_OC4J/SSIAD_MDB/XSD/"/>
 <!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->
<add key="SSIAD_MDB_XSD" value="BaExchangeFileRequest.XSD"/>
<add key="IS_XSD_VAL_REQD" value="Y"/>
<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <End> -->
            <!-- FCUBS DB FTP details -->
<add key="FCUBS_DB_SERVER_IP" value="10.80.50.227"/>
<add key="FCUBS_DB_SERVER_UID" value="kerneldev"/>
<add key="FCUBS_DB_SERVER_PWD" value="kerneldev"/>
<add key="FCUBS_DB_PAYLOAD_PATH" value="users/outbound/db/payload/"/>
            <!-- SSI MH FTP details -->
<add key="SSIAD_MDB_MH_IP" value="10.80.161.40"/>
<add key="SSIAD_MDB_MH_USERID" value="rashmish"/>
<add key="SSIAD_MDB_MH_PASSWORD" value="Password123"/>
<add key="SSIAD_MDB_MH_ENVELOPE" value="OutBound/OutEnvelop/"/>
 <add key="SSIAD MDB MH PAYLOAD PATH" value="OutBound/OutPayload/"/>
            <!--Outbound Envelope File -->
 <add key="SSIAD_OB_ENVELOPE_FILE_FOLDER" value="C:/Documents and Settings/Default
 User/SSIAD_OB_ENVELOPE/"/>
<add key="SSIAD_OB_ENVELOPE_FILE_PREFIX" value="BA"/>
<add key="SSIAD_OB_ENVELOPE_FILE_EXTENSION" value=".xml"/>
<add key="SSIAD_OB_ENVELOPE_FILE_SAVE_DATE_FORMAT"</pre>
```

#### 4. Configure logger parameters

Edit <KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/config/ssiad\_mdb\_logger.xml file to change the value of the property "SSIAD.LOGGER.FPATH" to value KERNEL\_INSTALL\_DIR>/ SSIAD\_MDB/log/.

e.g. If the value of your <KERNEL\_INSTALL\_DIR> is D:/Kernel8.0, then the entry for this property will be,

<add key="SSIAD.LOGGER.FPATH" value="D:/Kernel8.0/SSIAD MDB/log/"/>

[NOTE: Give SSIAD.LOGGER.FPATH with forward slash (/) as file separator and remember to give a slash (/) at the end.]

### 5. Run the build file

✓ For WINDOWS



- Go to the folder <KERNEL\_INSTALL\_DIR>\setup in the command prompt, type "set\_env" and press enter.
- Change directory to <KERNEL\_INSTALL\_DIR>\SSIAD\_MDB\setup\WAS in the command prompt, type "ws\_ant" and press enter.

#### ✓ For UNIX

- Go to the folder <KERNEL\_INSTALL\_DIR>/setup in the shell prompt, type "set\_env.sh" and press enter.
- Change directory to <KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/setup/WAS in the shell prompt,
   type "ws\_ant" and press enter.

[NOTE: Please make sure that you get a message BUILD SUCCESSFUL after compilation.]

#### 6. Deploy the MDB in WebSphere Application Server (WAS)

### 1. Stop the application server.

If the application server is already running, then stop the application server as follows:

- ✓ For Windows
- Go to the <APP\_SERVER\_HOME>/bin directory in the command prompt, type stopServer.bat server1 and press enter.

#### 2. Start the application server.

#### ✓ For Windows

- Go to the < APP\_SERVER\_HOME>/bin .i.e the application server installation directory in the command prompt, type **startServer.bat server1** and press enter.



- This will start the server. Ensure that you get no error during start up. If the server start up is proper we shall get the following screen.

```
C:\Program Files\IBM\WebSphere\AppServer\bin>startServer.bat server1
ADMU0116I: Tool information is being logged in file C:\Program
Files\IBM\WebSphere\AppServer\profiles\default\logs\server1\startServer.log
ADMU0128I: Starting tool with the default profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 1852
```

#### 3. Open the administrative console of the application server

✓ Open an internet browser and type the WAS Admin Console URL Address of the server.

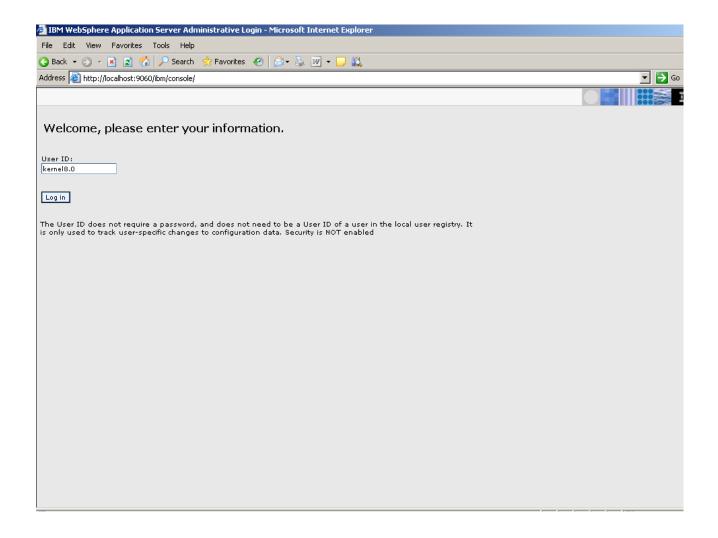
```
e.g. http://10.80.4.102:9060/ibm/console
```

where, 10.80.4.102 is the machine IP Address on which WAS is running.

✓ Enter a user id for launching the WAS Admin Console window.

The user id can be any name e.g.: KERNEL 8.0





4. Create an XA QueueConnectionFactory with the name SSIAD\_MDB\_QCF

[Refer: WAS\_SSIAD\_WebSphereMQ\_Installation.doc]

- 5. Make sure MQ Queue Destinations are present with the following names
  - a. NOTIFY\_DEST\_QUEUE
  - b. NOTIFY\_MDB\_DLQ



6. Create Message Listener with the name SSIAD\_MDB\_LISTENER with

Destination as NOTIFY\_DEST\_QUEUE and QueueConnectionFactory as

SSIAD\_MDB\_QCF

[Refer: WAS\_SSIAD\_WebSphereMQ\_Installation.doc]

7. Stop and re-start the WebSphere Application Server

[Refer: Steps 1 and 2 above.]

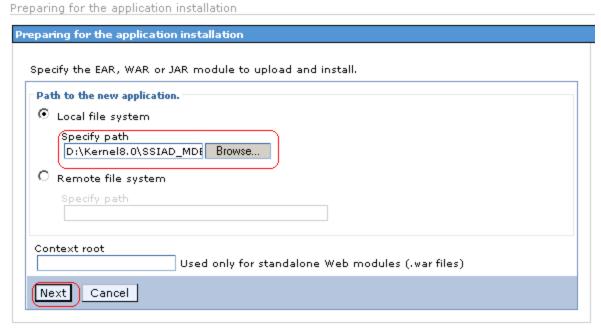


## 1. Deploying SSIAD\_MDB\_Bean.ear

- ✓ Click on Applications -> Install New Application.
- ✓ Following screen will be displayed. Specify the local path of the enterprise archive file

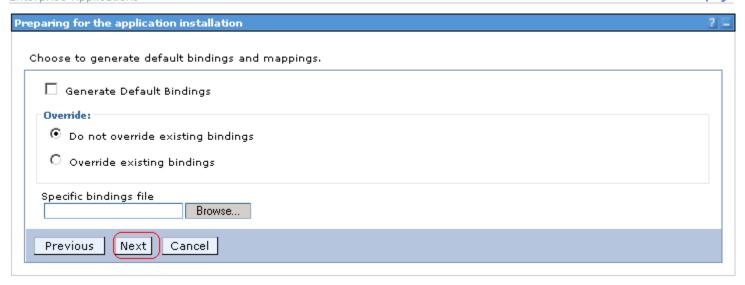
(i.e. <KERNEL\_INSTALL\_DIR>/SSIAD\_MDB/build/SSIAD\_MDB\_Bean.ear) and click on Next.



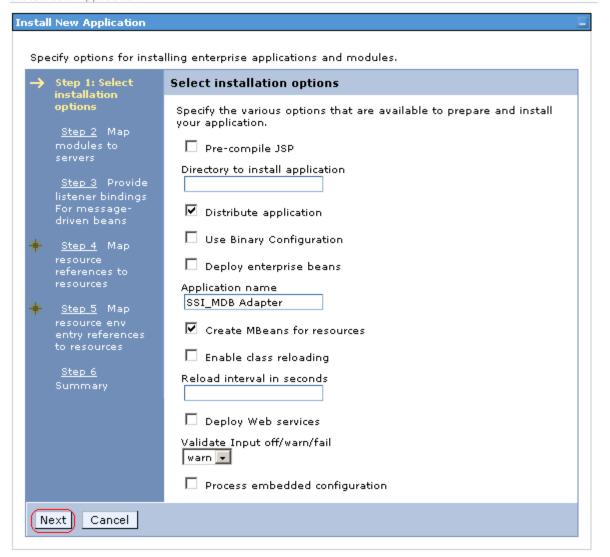


2. Following screen will be displayed. Click on Next.

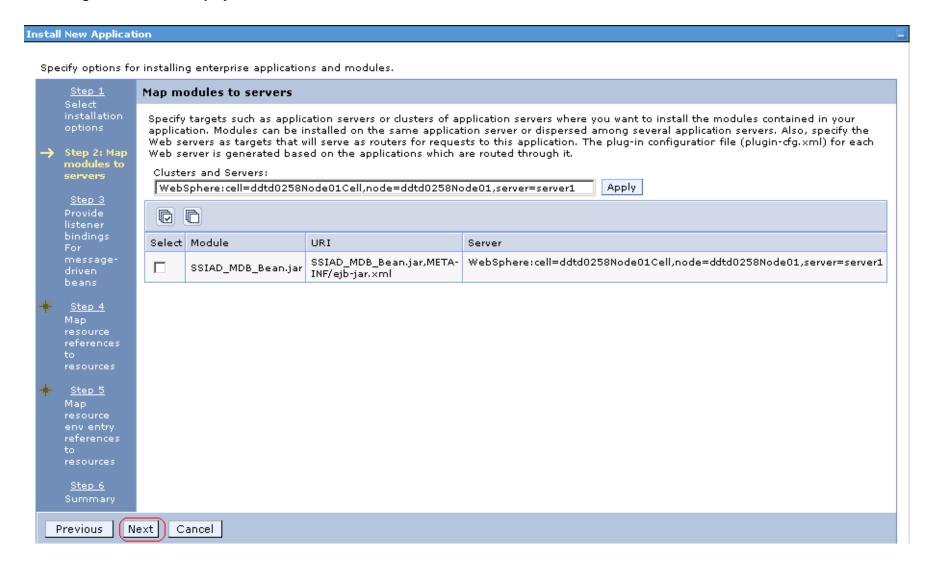
Enterprise Applications Close page



3. Following screen will be displayed. Click on Next.

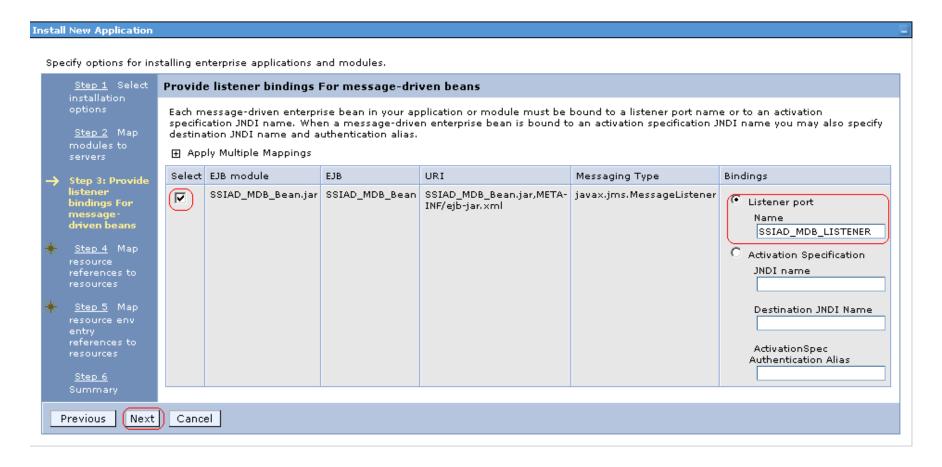


4. Following screen will be displayed. Click on Next.



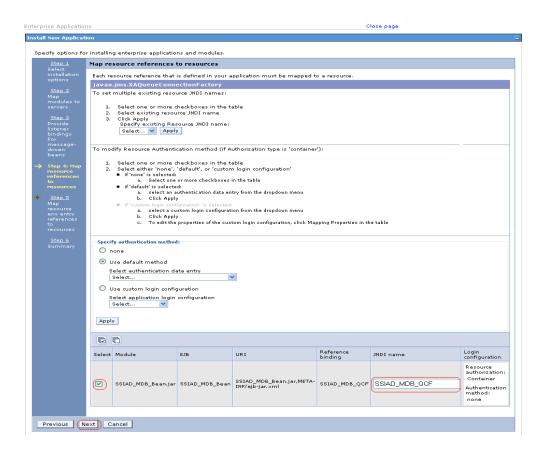
## 5. Following screen will be displayed.

Give the Listener Name as provided in step 7 and click on Next.



## 6. Following screen will be displayed.

Give the mapping for Queue Connection Factory and Data Source that has been created in above steps 6 and 7.



7. Following screen will be displayed. Click on Continue.



Enterprise Applications Close page

#### Application Resource Warnings

ADMA8019E: The resources that are assigned to the application are beyond the deployment target scope. Resources are within the deployment target scope if they are defined at the cell, node, server, or application level when the deployment target is a server, or at the cell, cluster, or application level when the deployment target is a cluster. Assign resources that are within the deployment target scope of the application or confirm that these resources assignments are correct as specified.

Step 4 - Map resource references to resources resulted in the following resource warnings. If Application Resource Validation is set to fail, you will not be able to continue past.

#### Module:

Name: SSIAD\_MDB\_Bean.jar

URI: SSIAD\_MDB\_Bean.jar,META-INF/ejb-jar.xml

Target: WebSphere:cell=DDTD0270Node01Cell,node=DDTD0270Node01,server=server1

#### Resource Reference:

Name: SSIAD\_MDB\_QCF

Type: javax.jms.XAQueueConnectionFactory

## Resource Assignment:

Name: SSIAD\_MDB\_QCF

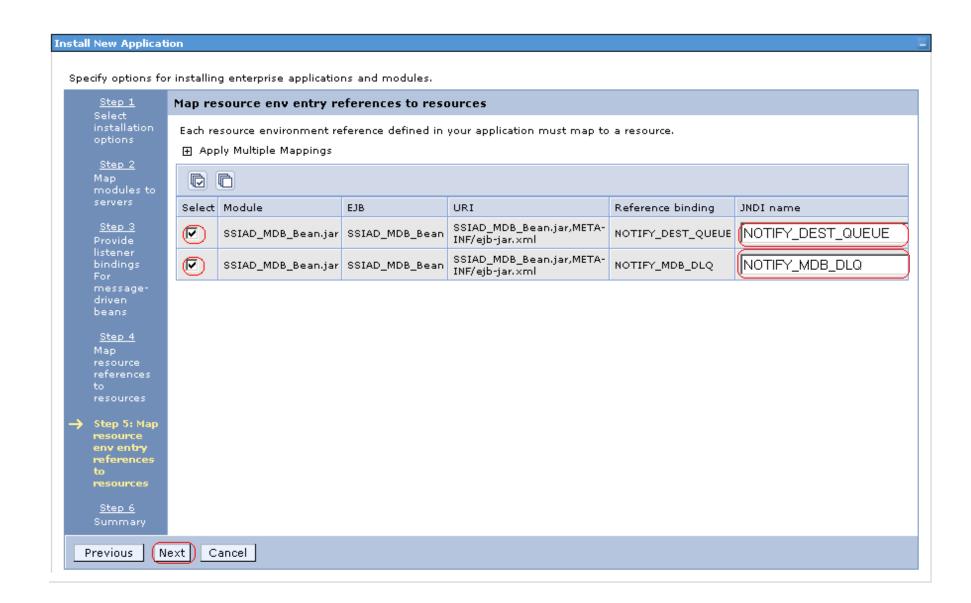
⚠ Scope: WebSphere:cell=DDTD0270Node01Cell,node=DDTD0270Node01,server=server1

⚠Type: JMSProvider
JNDI: SSIAD\_MDB\_QCF

Continue Cancel

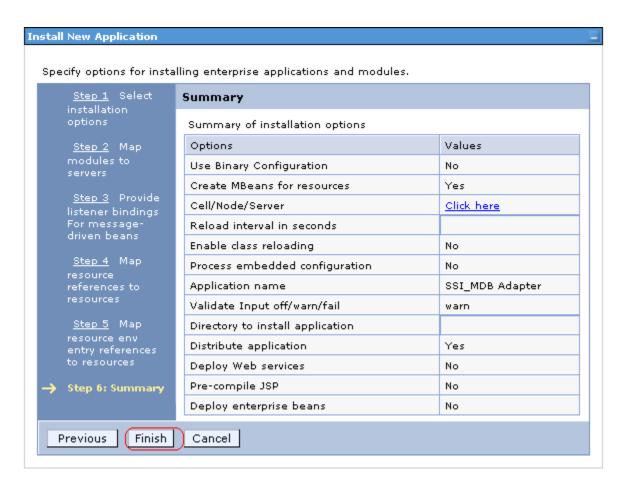
8.	Fc	Following screen will be displayed.								
	✓	Give the JNDI name mapping for Queues same as their respective reference Bindings names.								

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9. Following screen will be displayed. Click on Finish.

[NOTE: This may take a few minutes.]



10. Following screen will be displayed. Click on "Save to Master Configuration".



ADMA0115W: Resource Assignment of name NOTIFY\_MDB\_DLQ and type javax.jms.Queue, with JNDI name NOTIFY\_MDB\_DLQ is not found within scope of module SSIAD\_MDB\_Bean.jar with URI SSIAD\_MDB\_Bean.jar,META-INF/ejb-jar.xml deployed to target WebSphere:cell=ddtd0258Node01Cell,node=ddtd0258Node01,server=server1.

ADMA0115W: Resource Assignment of name NOTIFY\_DEST\_QUEUE and type javax.jms.Queue, with JNDI name NOTIFY\_DEST\_QUEUE is not found within scope of module SSIAD\_MDB\_Bean.jar with URI SSIAD\_MDB\_Bean.jar,META-INF/ejb-jar.xml deployed to target WebSphere:cell=ddtd0258Node01Cell,node=ddtd0258Node01.server=server1.

ADMA5068l: The resource validation for application SSI\_MDB Adapter completed successfully, but warnings occured during validation.

ADMA5058l: Application and module versions validated with versions of deployment targets.

ADMA5005l: The application SSI\_MDB Adapter is configured in the WebSphere Application Server repository.

ADMA5053l: The library references for the installed optional package are created.

ADMA5005l: The application SSI\_MDB Adapter is configured in the WebSphere Application Server repository.

ADMA50011: The application binaries are saved in d:\Program Files\BM\VebSphere\AppServer/profiles/default\wstemp\1148044957\workspace\cells\ddtd0258Node01Cell\applications\SSI\_MDB\_Adapter.ear\SSI\_MDB\_Adapter.ear

SECJ0400I: Successfuly updated the application SSI MDB Adapter with the appContextIDForSecurity information.

ADMA5011I: The cleanup of the temp directory for application SSI\_MDB Adapter is complete.

ADMA5013l: Application SSI\_MDB Adapter installed successfully.

Application SSI\_MDB Adapter installed successfully.

To start the application, first save changes to the master configuration.

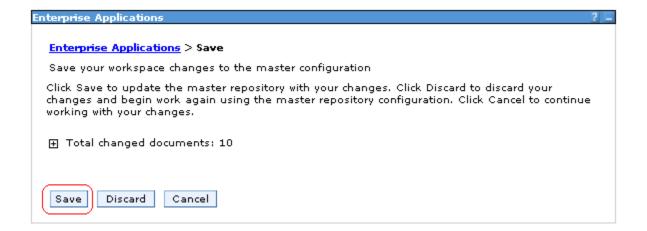
#### Save to Master Configuration

To work with installed applications, click the "Manage Applications" button.

Manage Applications



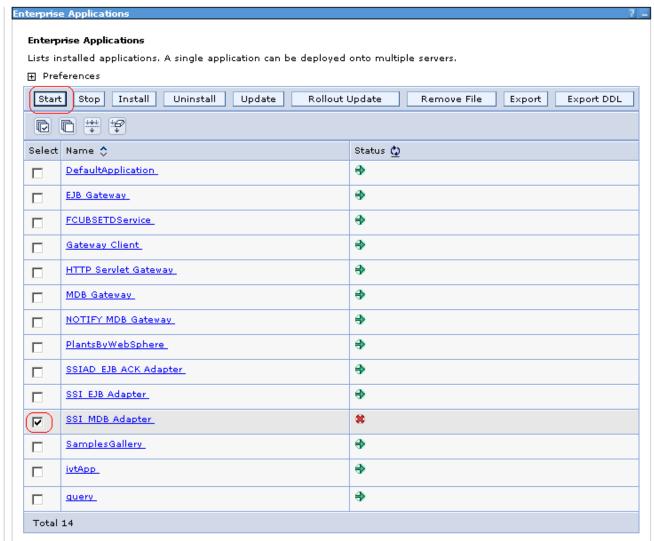
# 11. Following screen will be displayed. Click on Save.



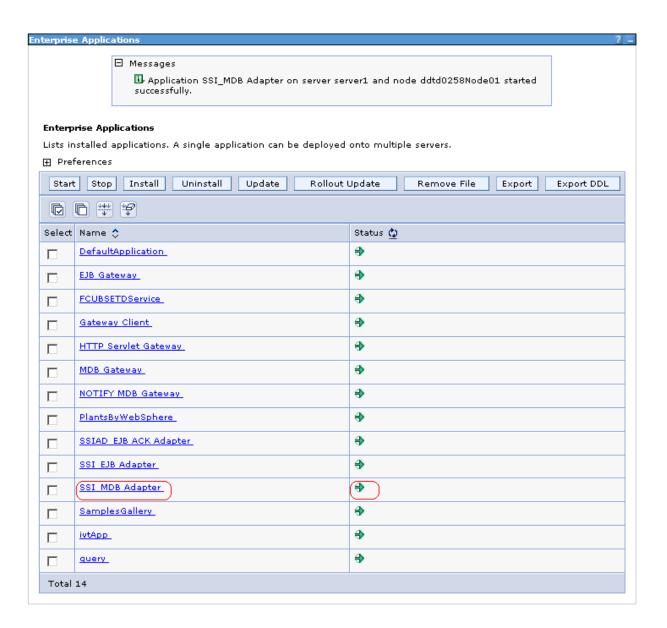
# 12. Browse to Application -> Enterprise Applications.

- ✓ The deployed SSIAD\_MDB\_Bean will be displayed on the screen.
- ✓ Click the check box beside it and click on **Start**.





12	Fallanda a arasa will	ho diamleyed with a mana		e status indicating that the deployed SSIAD_MDB_Bean is ru		
13.	Following Screen will	be displayed with a gree	n arrow as the status i	ndicating that the depi	oyed SSIAD_WDB_Be	an is running.





FLEXCUBE UBS Outbound Application Adapter Installation [May] [2016] Version 12.2.0.0.0

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