FLEXCUBE UBS Inbound Application Adapter Installation
Oracle FLEXCUBE Universal Banking
Release 12.2.0.0.0
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FINANCIAL SERVICES

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1. Installation Steps

1.1 Prerequisite

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

[Please refer GW_MDB Installation.doc.]

✓ Ensure that the basic Adapter Environment Setup is done.

[Please refer SSIAD_Installation_FCUBSV.UM8.0.0.0.0.0.0Lot1.doc.]

1.2 Steps

A. Configure FCC – FC SSI MH Integration Adapter Properties

Edit *<KERNEL_INSTALL_DIR>/SSIAD_EJB/config/SSIAD_EJB_Prop.xml* file to give appropriate values for the properties as described below,

1. XSD_PATH: This property specifies the path where the IsExchangeFileRequest.XSD is stored.

   e.g. XSD_PATH=<KERNEL_INSTALL_DIR>/SSIAD_EJB/XSD/

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

2. SSIAD_EJB_ENVELOPE_XSD: This property specifies the name of the XSD against

   which SSIAD Envelope validation is done against the incoming messages.

   e.g. SSIAD_EJB_ENVELOPE_XSD = "IsExchangeFileRequest.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. IB_EJB_SERVER_URL: This property specifies protocol, server url and the port

   number on which WAS server is running in protocol:// server URL:port format.

   e.g. IB_EJB_SERVER_URL = "iiop://10.80.44.117:2809"

5. IB_EJB_CTX_FACTORY: This property define context factory for WAS server used

   by WebSphere Application Server applications to perform JNDI operations

   eg. IB_EJB_CTX_FACTORY ="com.ibm.websphere.naming.WsnInitialContextFactory"

6. IB_EJB_SECURITY_PRINCIPAL: specifying the identity of the principal for

   authenticating the caller to the service if required otherwise can be left blank.

7. IB_EJB_SECURITY_CREDENTIALS: specifies the credentials of the principal for

   authenticating the caller to the service if required otherwise can be left blank.

8. IB_EJB_CALL_TYPE: This property specifies the call type of EJB that must always be
   REMOTE.

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9. IB_EJB_LOCAL_CALL: This property must always be LOCAL.

10. IB_EJB_REMOTE_CALL: This property must always be REMOTE.

11. FCUBS_DB_SERVER_IP: This property defines FCUBS Database server IP address.

12. FCUBS_DB_SERVER_UID: This property defines user id for FCUBS Database server.

13. FCUBS_DB_SERVER_PWD: This property defines password for FCUBS Database server.

14. FCUBS_DB_PAYLOAD_PATH: This property defines payload file path on FCUBS Database server.

15. FCUBS_DB_DEAD_LETTER_PATH: This property defines dead letter file path on FCUBS Database server.

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

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16. SSIAD_EJB_JMS_ICF: This property defines InitialContextFactory that is responsible

   for getting and instance of the initial context. It is also responsible for looking up JMS

   topics and queues.

17. SSIAD_EJB_JMS_PROVIDER_URL: This property is used for external JNDI lookups.

    eg. provider URL in <host>[:<port>] format.

   Specify whole path of the binding file that has been created for Gateway MDB

      installation.

18. SSIAD_EJB_JMS_SECURITY_ PRINCIPAL: This property defines the name of the entity   (user)
    that is authenticated when the connection to the JMS provider is established. The Security Principal
    and the Security Credentials are included in the naming context when the connection factory is
    looked up from the naming.

19. SSIAD_EJB_JMS_SECURITY_CREDENTIALS: This property defines the credentials

   (typically a password) that authenticate the security principal to the JMS provider.

20. SSIAD_EJB_JMS_QCF: This property specifies the Queue Connection Factory of the

      Queue Manager to which the Gateway MDB is associated. A queue connection factory

      is used to create connections to the associated JMS provider of JMS queue

destinations, for point-to-point messaging.

eg. SSIAD_EJB_JMS_QCF =MDBQCF

21. SSIAD_EJB_JMS_QUEUE_NAME: This property specifies the Queue on which the

Gateway MDB is listening.

SSIAD_EJB_JMS_QUEUE_NAME =MDB_QUEUE

22. SSIAD_EJB_JMS_Q_ACKNOWLEDGE: This property specifies the mode of

acknowledgement to be given to the MOM by the application. The possible values are

CLIENT_ACKNOWLEDGE, DUPS_OK_ACKNOWLEDGE and AUTO_ACKNOWLEDGE.

23. SSIAD_EJB_JMS_Q_TRANSACTION: This property specifies whether the message

sent/received has to be transacted or not. The value is false.

24. SSIAD_EJB_JMS_Q_DELIVERY_OPT: The message delivery option represents

whether the message will be delivered with the Delivery mode as PERSISTENT or

NON-PERSISTENT. Possible values are 1 and 2. 1 represents delivery mode to be

NON-PRESISTENT while 2 represents the delivery mode to be PRESISTENT.

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25. SSIAD_EJB_JMS_Q_TIME_TO_LIVE: This is the maximum time in milliseconds for which the outgoing/reply message will remain in the queue before expiring, if not already picked up by the external system application. Value 0 ensures that message will NEVER expire.

26. SSIAD_EJB_JMS_Q_PRIORITY: This is the priority of the outgoing/reply message. Priority value can be ranging from 0 to 9, 9 being highest priority and 0 being lowest priority. Priorities 0-4 are gradations of normal priority and priorities 5-9 are gradations of expedited priority.

27. SSIAD_EJB_MH_IP: This property defines SSI MH server IP address.

28. SSIAD_EJB_MH_USERID: This property defines user id for SSI MH server.

29. SSIAD_EJB_MH_PASSWORD: This property defines password for SSI MH server.

30. SSIAD_EJB_MH_ENVELOPE: This property defines envelope file path on SSI MH server.

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31. SSIAD_MH_PAYLOAD_PATH: This property defines payload file path on SSI MH

    server.

32. XSL_PATH: This property specifies the path where the SSI_ADAPTER.XSL is stored.

    E.g..   XSL_PATH =<KERNEL_INSTALL_DIR>/SSIAD_EJB/XSL/

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

    at the end.]

33. SSIAD_EJB_XSL: This property specifies the XSL file name.

    E.g..   SSIAD_ADAPTER_XSL = SSIAD_EJB_XSL.xsl

34. EJB_OBJ_PATH: Defines path to store EJB reference.

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

    at the end.]

35. MSG_REPOLL_SLEEP_TIME: This property specifies interval of polling in milliseconds

36. LOGGER_PATH: This property specifies the path of the logger property file. This file can

    be found at <KERNEL_INSTALL_DIR>/SSIAD_EJB/config.

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

at the end.]

The SSIAD_EJB_Prop.xml will look similar as follows,

```
<add key="XSD_PATH" value="D:/KERNEL_SSIAD_OC4J/SSIAD_EJB/XSD/"/>

<add key="SSIAD_EJB_XSD" value="IsExchangeFileRequest.XSD"/>

<add key="IS_XSD_VAL_REQD" value="Y"/>

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->

<!--

    <add key="MAX_CLOB_LEN" value="32512"/>

    <add key="DB_TIMEOUT" value="20"/>

    <add key="FCUBS_MSG_SCHEMA_CON_POOLNAME" value="KERNELDEV.WORLD"/>

    <add key="FCIS_MSG_SCHEMA_CON_POOLNAME" value="FCIS_MSG_SCHEMA"/>

-->

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <End> -->

<add key="IB_EJB_JNDI_NAME" value="SSIAD_EJB_Bean"/>

<add key="IB_EJB_SERVER_URL" value="iiop://10.80.44.117:2809"/>

 <add key="IB_EJB_CTX_FACTORY"

            value="com.ibm.websphere.naming.WsnInitialContextFactory"/>

-->
```

```xml
<add key="IB_EJB_SECURITY_PRINCIPAL" value="oc4jadmin"/>

<add key="IB_EJB_SECURITY_CREDENTIALS" value="oc4jadmin"/>

<add key="IB_EJB_CALL_TYPE" value="REMOTE"/>

<add key="IB_EJB_LOCAL_CALL" value="LOCAL"/>

<add key="IB_EJB_REMOTE_CALL" value="REMOTE"/>

            <!-- FTP FC DB 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/TestDes/"/>

<add key="FCUBS_DB_DEAD_LETTER_PATH" value="C:/Documents and Settings/Default
User/DLF/"/>

            <!-- JMS details -->

<add key="SSIAD_EJB_JMS_ICF" value="com.sun.jndi.fscontext.RefFSContextFactory"/>

<add key="SSIAD_EJB_JMS_PROVIDER_URL" value="file:/D:/bindings"/>

<add key="SSIAD_EJB_JMS_SECURITY_PRINCIPAL" value=""/>

<add key="SSIAD_EJB_JMS_SECURITY_CREDENTIALS" value=""/>

<add key="SSIAD_EJB_JMS_QCF" value="MDBQCF"/>

<add key="SSIAD_EJB_JMS_QUEUE_NAME" value="MDB_QUEUE"/>

<add key="SSIAD_EJB_JMS_Q_ACKNOWLEDGE" value="AUTO_ACKNOWLEDGE"/>
```

```xml
<add key="SSIAD_EJB_JMS_Q_TRANSACTION" value="false"/>

<add key="SSIAD_EJB_JMS_Q_DELIVERY_OPT" value="2"/>

<add key="SSIAD_EJB_JMS_Q_TIME_TO_LIVE" value="500000"/>

<add key="SSIAD_EJB_JMS_Q_PRIORITY" value="7"/>

        <!-- FTP SSI MH DETAILS -->

<add key="SSIAD_EJB_MH_IP" value="10.80.161.40"/>

<add key="SSIAD_EJB_MH_USERID" value="rashmish"/>

<add key="SSIAD_EJB_MH_PASSWORD" value="Password123"/>

<add key="SSIAD_EJB_MH_ENVELOPE" value="Inbound/InEnvelop/"/>

<add key="SSIAD_MH_PAYLOAD_PATH" value="Inbound/InPayload/"/>

        <!-- XSL -->

<add key="XSL_PATH" value="D:/KERNEL_SSIAD_OC4J/SSIAD_EJB/XSL/"/>

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->

<add key="SSIAD_EJB_XSL" value="SSIAD_EJB_XSL.xsl"/>

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <End> -->

        <!-- Client -->

<add key="EJB_OBJ_PATH" value="C:/Documents and Settings/Default User/ejb/obj"/>

            <!-- MISCELLANEOUS PROPERTIES -->

<add key="LOGGER_PATH"
```

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```
                value="D:/KERNEL_SSIAD_OC4J/SSIAD_EJB/config/ssiad_ejb_logger.xml"/>

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <Start> -->

<add key="MSG_REPOLL_SLEEP_TIME" value="1000"/>

<!-- Kernel 8.0 Lot 1 ITR1 SFR#01 <End> -->
```

B. Configure logger parameters

- Edit <KERNEL_INSTALL_DIR>/SSIAD_EJB/config/ssiad_ejb_logger.xml file to change the
  value of the property "SSIAD.LOGGER.FPATH" to
  <KERNEL_INSTALL_DIR>/SSIAD_EJB/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_EJB/log/"/>

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

C. 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_EJB\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_EJB/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.]

D. Deploy the EJB 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.

✓ For UNIX

- Go to the <APP_SERVER_HOME>/bin directory in the command prompt, type . ./**stopServer.sh server1** and press enter.

2. Start the application server.

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✓ 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.

✓ For UNIX

  - Go to the <APP_SERVER_HOME>/bin .i.e the application server installation directory in the
    command prompt, type . ./**startServer.sh server1** and press enter.

  - This will start the server. Ensure that you get no error during start up.

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 eg. KERNEL 8.0

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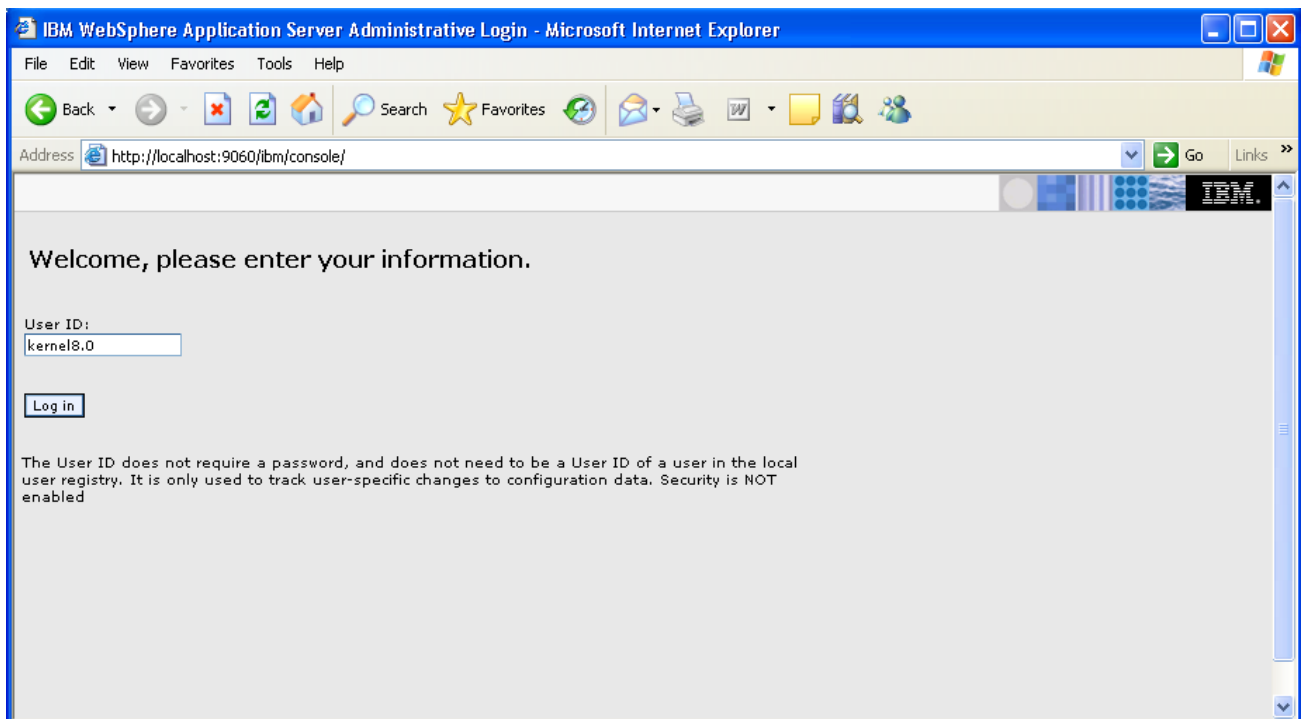
4. Deploying SSIAD_EJB_Bean.ear

✓ 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_EJB/build/SSIAD_EJB_Bean.ear) and click on Next.
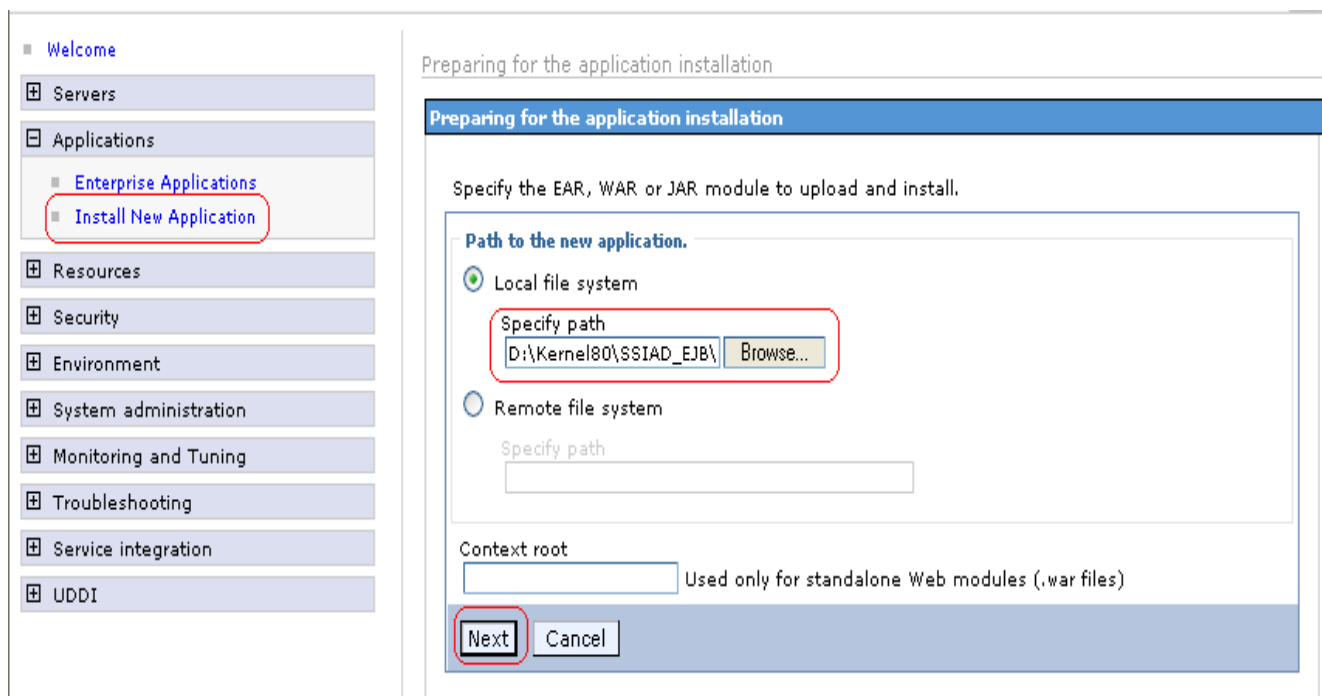
5. Following screen will be displayed. Click on Next.

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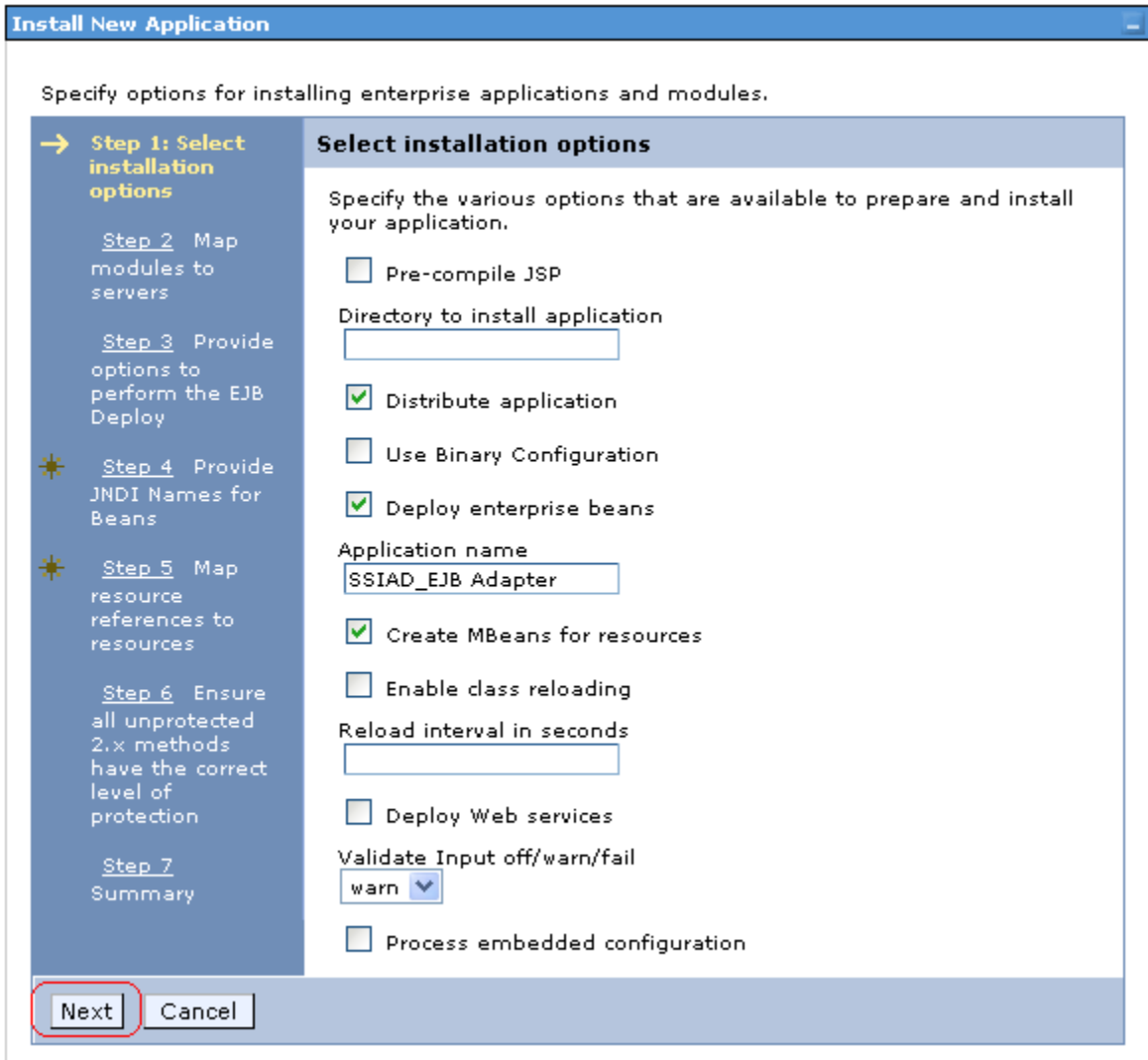
6.   **Following screen will be displayed. Click on Next.**

Install New Application

Specify options for installing enterprise applications and modules.

→ Step 1: Select installation options

Step 2 Map modules to servers

Step 3 Provide options to perform the EJB Deploy

✴ Step 4 Provide JNDI Names for Beans

✴ Step 5 Map resource references to resources

Step 6 Ensure all unprotected 2.x methods have the correct level of protection

Step 7 Summary

Select installation options

Specify the various options that are available to prepare and install your application.

☐ Pre-compile JSP

Directory to install application

[   ]

☑ Distribute application

☐ Use Binary Configuration

☑ Deploy enterprise beans

Application name

[SSIAD_EJB Adapter]

☑ Create MBeans for resources

☐ Enable class reloading

Reload interval in seconds

[   ]

☐ Deploy Web services

Validate Input off/warn/fail

[warn ▼]

☐ Process embedded configuration

[Next] [Cancel]

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

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8. Following screen will be displayed.

click on NEXT.

9. Following screen will be displayed.

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Specify the JNDI name of the EJB Bean i.e. "SSIAD_EJB_Bean" and click on NEXT.

10. Following screen will be displayed.

Click on NEXT.

11. **Following screen will be displayed.**

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Click on Finish.

[NOTE: This may take a few minutes.]

.

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

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```
Shutting down workbench.

EJBDeploy complete.

0 Errors, 0 Warnings, 0 Informational Messages

ADMA5007I: The EJBDeploy command completed on C:\WINDOWS\TEMP\app_112c2f35d79\dpl\dpl_SSI_EJB.ear

ADMA5005I: The application SSI_EJB is configured in the WebSphere Application Server repository.

ADMA5053I: The library references for the installed optional package are created.

ADMA5005I: The application SSI_EJB is configured in the WebSphere Application Server repository.

ADMA5001I: The application binaries are saved in d:\Program Files\IBM\WebSphere\AppServer/profiles/default\wstemp\1148044957
\workspace\cells\DDTD0270Node01Cell\applications\SSI_EJB.ear\SSI_EJB.ear

ADMA5005I: The application SSI_EJB is configured in the WebSphere Application Server repository.

SECJ0400I: Successfuly updated the application SSI_EJB with the appContextIDForSecurity information.

ADMA5011I: The cleanup of the temp directory for application SSI_EJB is complete.

ADMA5013I: Application SSI_EJB installed successfully.
```

Application SSI_EJB 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

13. Following screen will be displayed. Click on Save.
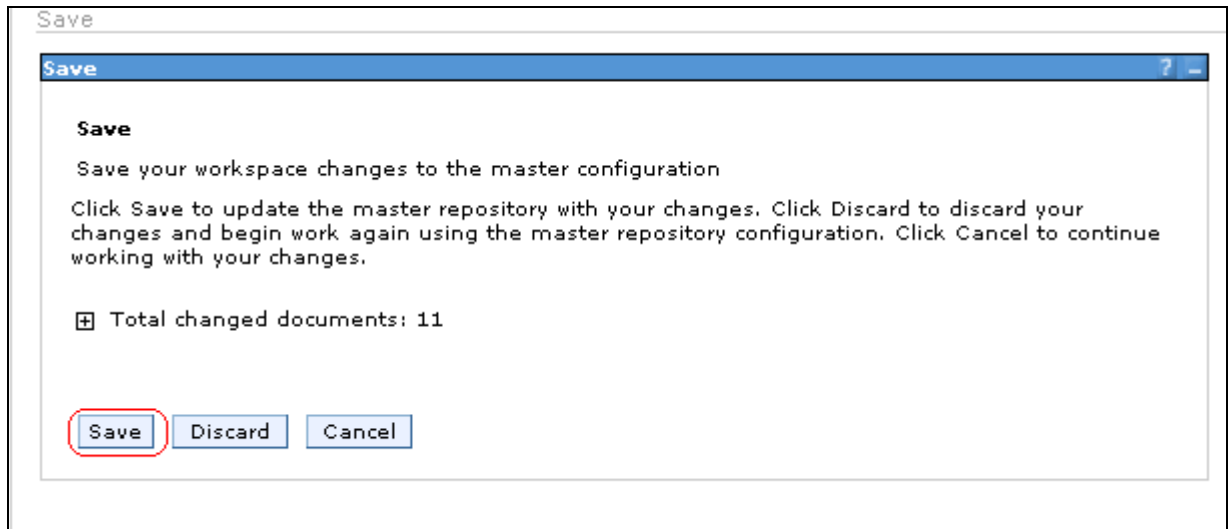
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14. **Browse to Application -> Enterprise Applications.**

✓ The deployed SSIAD_EJB_Bean will be displayed on the screen.

✓ Click the check box beside it and click on **Start**.

15.   Following screen will be displayed with a green arrow as the status indicating that the deployed SSIAD_EJB_Bean is running.

Enterprise Applications

☐ Messages

🛈 Application SSI_EJB Adapter on server server1 and node DDTD0270Node01 started successfully.

Enterprise Applications

Lists installed applications. A single application can be deployed onto multiple servers.

⊞ Preferences

| Start | Stop | Install | Uninstall | Update | Rollout Update | Remove File | Export | Export DDL |

Select	Name ↕	Status ↻
☐	DefaultApplication	➡
☐	EJB Gateway	➡
☐	FCUBSAccAddrService	➡
☐	HTTP Servlet Gateway	➡
☐	MDB Gateway	➡
☐	PlantsByWebSphere	➡
☐	SSIAD EJB ACK Adapter	➡
☐	SSI EJB Adapter	➡
☐	SSI MDB Adapter	➡
☐	SamplesGallery	➡
☐	ivtApp	➡
☐	query	➡
Total 12		

E.   Notifying the SSIAD_EJB_Bean to start polling on Folder

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✓ For Windows

    1. Open a Command prompt

    2. Go to <KERNEL_INSTALL_DIR>\setup

    3. Type **set_env** and press Enter.

    4. Go to <KERNEL_INSTALL_DIR>\SSIAD_EJB\client\WAS

    5. Type **runEJBClient START** and press enter

✓ For Unix

    1. Go to <KERNEL_INSTALL_DIR>/setup

    2. Type **chmod +x set_env.sh** and press Enter.

    3. Type **set_env.sh** and Press Enter.

    4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB /client/WAS

    5. Type **chmod +x runEJBClient.sh**

    6. Type **runEJBClient.sh START** and press Enter

F. Canceling the SSIAD_EJB_Bean so as to stop polling on Folder

✓ For Windows

    1. Open a Command prompt

    2. Go to <KERNEL_INSTALL_DIR>/setup

    3. Type **set_env** and press Enter.

    4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB /client/WAS

    5. Type **runEJBClient STOP** and press enter

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✓   For Unix

1. Go to <KERNEL_INSTALL_DIR>/setup

2. Type **chmod +x set_env.sh** and press Enter.

3. Type **set_env.sh** and Press Enter.

4. Go to <KERNEL_INSTALL_DIR>/ SSIAD_EJB /client/WAS

5. Type **chmod +x runEJBClient.sh**

6. Type **runEJBClient.sh STOP** and press Enter

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FLEXCUBE UBS Inbound Application Adapter Installation
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