Oracle Financial Services Inline Processing Engine Configuration Guide





Oracle Financial Services Inline Processing Engine Configuration Guide, Release 8.1.2.3.0

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Preface

This Preface provides supporting information for the Oracle Financial Services Analytical Applications Infrastructure Inline Processing Configuration (OFSAAI IPE) Guide and includes the following topics:

- Summary
- Audience
- Related Documents

1.1 Summary

You can find the latest copy of this document in the OHC library which includes all therecent additions/revisions (if any) done till date.

Before you begin the installation, ensure that you have an access to the Oracle Support Portal with the required login credentials to quickly notify us of any issues at any stage. You can obtain the login credentials by contacting Oracle Support.

1.2 Audience

Oracle Financial Services Analytical Applications Infrastructure Inline Processing Application Configuration Guide is intended for administrators and implementation consultants who are responsible for installing and maintaining the application pack components.

• Prerequisites for the Audience

1.2.1 Prerequisites for the Audience

Following are the expected preparations before starting the actual installation:

The document assumes you have experience in installing Enterprise components. Basic knowledge about the Oracle Financial Services Analytical Applications Infrastructure Applications Pack components, Inline Processing Sample Application, OFSAA Architecture, UNIX commands, Database concepts and Web Server/ Web Application Server is recommended.

1.3 Related Documents

This section identifies additional documents related to OFSAA Infrastructure. You can access Oracle documentation online from the Documentation Library for OFSAAI 8.0.9.0.0 (OHC).

- Oracle Financial Services Analytical Applications Infrastructure Inline Processing UserGuide
- Oracle Financial Services Analytical Applications Infrastructure Inline ProcessingSample Application Installation Guide

ReleaseNotes



About OFSAAI IPE

This chapter includes the following topics:

- About OFSAA
- About IPE

2.1 About OFSAA

In today's turbulent markets, financial institutions require a better understanding of their risk-return, while strengthening competitive advantage and enhancing long-term customer value. Oracle Financial Services Analytical Applications (OFSAA) enable financial institutions to measure and meet risk adjusted performance objectives, cultivate a risk management culture through transparency, lower the costs of compliance and regulation, and improve insight into customer behavior.

OFSAA uses industry-leading analytical methods, shared data model and applications architecture to enable integrated risk management, performance management, customer insight, and compliance management. OFSAA actively incorporates risk into decision making, enables to achieve a consistent view of performance, promote a transparent risk management culture, and provide pervasive intelligence.

Oracle Financial Services Analytical Applications delivers a comprehensive, integrated suite of financial services analytical applications for both banking and insurance domain.

2.2 About IPE

This guide provides step by step instructions for performing Inline Processing Configuration process actions. Inline Processing builds a scoring mechanism for activity data like transactions in real time or batch mode. For example, this capability enables you to identify fraud events earlier, avert more losses, and minimize customer service and retention issues.



Configuring IPE

This chapter discusses the prerequisite instructions required to configure IPE.

Prerequisites
 The following prerequisite configurations must be verified before installation:

3.1 Prerequisites

The following prerequisite configurations must be verified before installation:

- A user must be created and mapped with the IPEADMN (Inline Processing Admin Group)user group. To create a user, refer Oracle Financial Services Advanced Analytics Applications Infrastructure User Guide on OHC.
- The IPEADMIN user group must be mapped withInfodom.
- Connection Pooling and Data Source must be created for the followingschemas:
 - Config Schema with Data Source name asjdbc/FICMASTER
 - IPE Atomic Schema with Data Source name as jdbc/<INFODOMNAME>



jdbc/<INFODOM NAME> should be pointed to metadom. For more information, refer the section on **Information Domain** in *Oracle Financial Services Advanced Analytics Applications Infrastructure User Guide* on OHC.

IPE Atomic schema with Data Source name as jdbc/<INFODOM NAME>CNF



jdbc/<INFODOM NAME>CNF is required only for real time processing

- For more information, refer to section Configuring Resource Reference of the OFS AAAI
 Application Pack Installation and ConfigurationGuide.
- Oracle Database Patches: Ensure that the patches mentioned in the section *Hardware* and Software Properties of the OFS AAAI Application Pack Installation and Configuration Guide8.0.2.0.0 are applied.
 - The WebSphere JDBC Providers should point to the oracle driver file path where the patch is installed.



Configuring IPE in Web Application Servers for Real Time Mode

This section explains the details about configuring the Web Application Servers.

This section includes the following topics:

- Configuring IPE in WebLogic
- Configuring IPE in WebSphere
- Configuring IPE in Tomcat
- Configuring IPE in Kafka

4.1 Configuring IPE in WebLogic

To configure IPE in WebLogic, follow these topics:

- Login to WebLogic Administrative Console
 To login to the WebLogic Administrative Console, follow these steps:
- Configuring JMS Servers
 To configure JMS Servers, follow these steps:
- Configuring JMS Modules
 To configure JMS Modules, follow these steps:
- Creating Subdeployments
- Creating JMS Connection Factory
 To create JMS Connection Factories, follow these steps:
- Creating JMS Topic
- Creating JMS Queues
- Restart Weblogic Domain

4.1.1 Login to WebLogic Administrative Console

To login to the WebLogic Administrative Console, follow these steps:

- Open the following URL in the browser window: http://<ipaddress>:<administrative console port>/console. (https if SSL is enabled). The Welcome window is displayed.
- 2. Login with the Administrator Username and Password.

4.1.2 Configuring JMS Servers

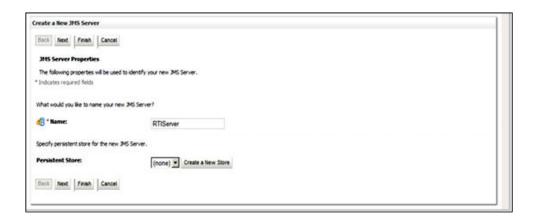
To configure JMS Servers, follow these steps:

1. In the Domain Structure LHS menu, click + to expand Services.

- 2. Click + to expand **Messaging**. The *WebLogic Server Administration Console* page is displayed.
- 3. Select **JMS Servers**. The *Summary of JMS Servers* page is displayed.



4. Click **New**. The *Create a New JMS Server* page is displayed.

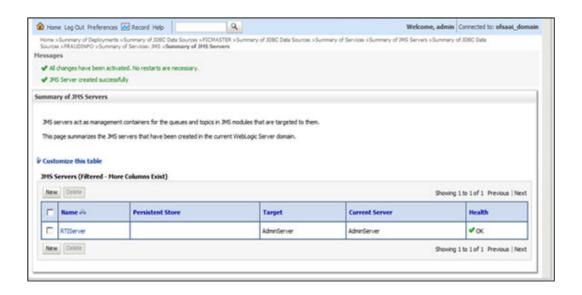


- 5. Enter the name as **RTIServer** under JMS Server Properties.
- 6. Click **Next**. The *Select Targets* section is displayed.



- **7.** Select the Target as **AdminServer**.
- B. Click Finish.





9. The following confirmation message is displayed.

JMS Server is created successfully.

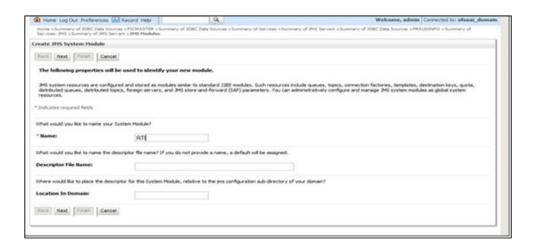
4.1.3 Configuring JMS Modules

To configure JMS Modules, follow these steps:

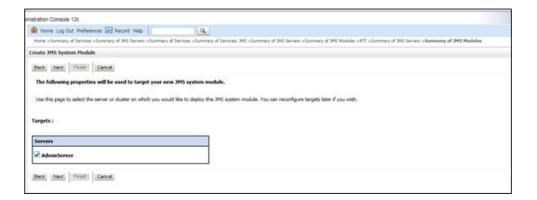
- 1. In the Domain Structure LHS menu, click + to expand Services.
- 2. Click + to expand Messaging.
- 3. Click JMS Modules. The JMS Module screen is displayed.



4. Click **New**. The *Create JMS System Module* page is displayed.



- 5. Enter the name as RTI.
- 6. Click **Next**. The *Create JMS System Module* page is displayed.



- 7. Check the **AdminServer** in the *Servers* section.
- 8. Click Next.



9. Click Finish.



10. The following confirmation message is displayed.

JMS Module is created successfully.

4.1.4 Creating Subdeployments

This section discusses the following Subdeployments which are to be created

- · Creating RTI Deploy
- Creating RTISubdeploy
- Creating RTI Deploy
 To create RTI Deploy subdeployment, follow these steps:
- Creating RTISubdeploy
 To create RTISubdeploy subdeployment, follow these steps:

4.1.4.1 Creating RTI Deploy

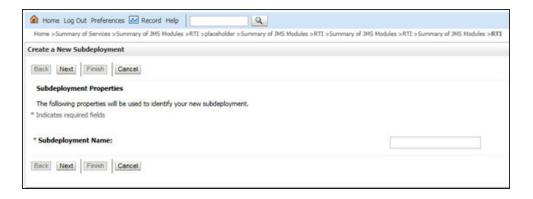
To create **RTI Deploy** subdeployment, follow these steps:

- 1. In the Domain Structure LHS menu, click + to expand Services.
- 2. Click + to expand Messaging.
- 3. Click JMS Modules. The JMS Module screen is displayed.
- 4. Click JMS Module RTI. The Settings for RTI screen is displayed.
- 5. Click the **Subdeployments** tab.

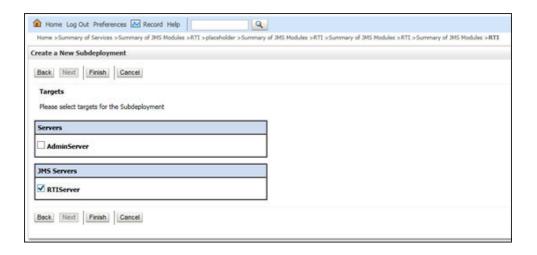


6. Click **New**. The *Create a New Subdeployment* screen is displayed.





- 7. Enter the Subdeployment Name as RTI Deploy.
- 8. Click Next.



- 9. Select the JMS Servers as RTIServer.
- **10.** Click **Finish**. The following confirmation message is displayed: Subdeployment is created successfully.



4.1.4.2 Creating RTISubdeploy

To create **RTISubdeploy** subdeployment, follow these steps:

- Repeat Steps 1 7 from section Create RTI Deploy.
- 2. Enter the following details:



Table 4-1 Subdeployment - Field Values

Field	Value
Subdeployment Name	Enter RTISubdeploy as the name.
JMS Servers	Select RTIServer as the JMS Server.



3. The following confirmation message is displayed: Subdeployment is created successfully.

4.1.5 Creating JMS Connection Factory

To create JMS Connection Factories, follow these steps:

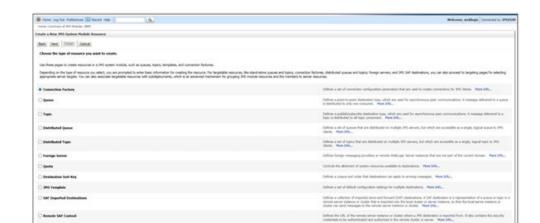
- 1. In the Domain Structure LHS menu, click + to expand Services.
- 2. Click + to expand Messaging.
- 3. Click **JMS Modules**. The *JMS Modules* screen is displayed.



4. Click RTI. The Settings for RTI screen is displayed.







5. Click **New**. The *Create a New JMS System Module* screen is displayed.

6. Select **Connection Factory**.

Jack (Sec. | 1999) | Sec.

7. Click **Next**. The *Create a New JMS System Module Resource* screen is displayed.



- **8.** Enter the Name as JMS Connection Factory.
- Click Next. The Create a New JMS System Module Resource screen with the Target section is displayed.



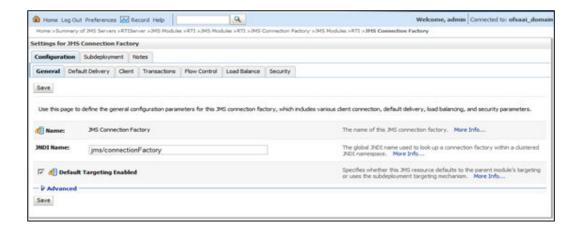
10. Select AdminServer.



11. Click Finish.



12. Click **JMS Connection Factory**. The *Settings for JMS Connection Factory* screen is displayed.



13. Enter the following details:

Table 4-2 Example

Field	Name
Name	The name of the JMS connection factory is displayed as JMS Connection Factory.
JNDI Name	jms/connectionFactory
Default Targeting Eanbled	Select the check-box to enable Default Targeting.

- 14. Click Save.
- **15.** The following confirmation message is displayed.

JMS Connection Factory is created successfully.





4.1.6 Creating JMS Topic

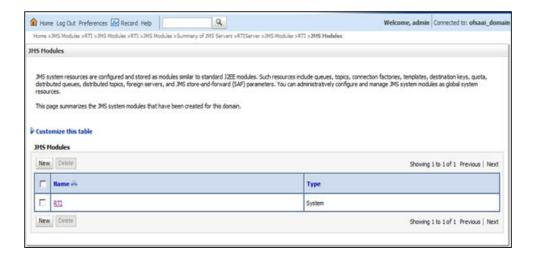
This section discusses the following JMS Topics to be created:

- Creating RTI Assessment Response Destination Topic To create JMS Topic, follow these steps:
- Creating Cache Operation Message Destination Topic
 To create Cache Operation Message Destination Topic, follow these steps:

4.1.6.1 Creating RTI Assessment Response Destination Topic

To create JMS Topic, follow these steps:

- 1. In the Domain Structure LHS menu, click + to expand Services.
- Click + to expand Messaging.
- 3. Click **JMS Modules**. The *JMS Modules* screen is displayed.

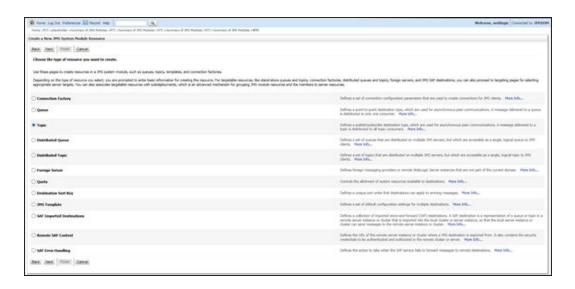


4. Click RTI. The Settings for RTI screen is displayed.

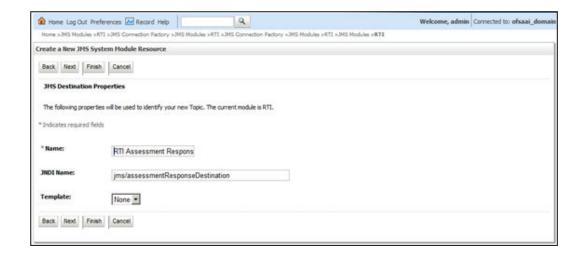




5. Click **New**. The Settings for JMS Connection Factory screen is displayed.



- 6. Select **Topic** from the list.
- 7. Click Next. The Create a New JMS System Module Resource screen is displayed.



8. Enter the following details:



Table 4-3 JMS Topic - Field Values

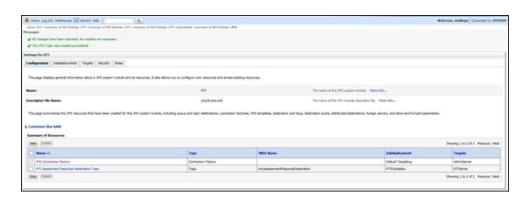
Field	Value
Name	RTI Assessment Response Destination Topic
JNDI Name	jms/assessmentResponseDestination

9. Click Next. The Create a New JMS System Module Resource screen is displayed.



- 10. Select the Subdeployments as RTISubDeploy.
- 11. Select RTISever.
- 12. Click Finish.
- **13**. The following confirmation message is displayed.

JMS Topic is created successfully.



4.1.6.2 Creating Cache Operation Message Destination Topic

To create Cache Operation Message Destination Topic, follow these steps:

- Repeat Steps 1 13 from section Creating RTI Assessment Response Destination Topic.
 - (Optional) <Enter a step example.>
- **2.** Enter the following details:



Table 4-4 JMS Topic - Field Values

Field Value	
Name Cache Operation Message Destination	
JNDI Name	jms/cacheOperationMessageDestination

3. The following confirmation message is displayed.

JMS Topic is created successfully.



4.1.7 Creating JMS Queues

This section discusses the following queues to be created:

- RTI Feedback Queue
- RTI Source Entity Queue
- Wire Transaction Source Entity Queue
- RTI Hold JMS Queue
- RTI Feedback Queue To create the RTI Feedback Queue, follow these steps:
- Creating Remaining JMS Queues
 To create the remaining JMS Queues, follow these steps:

4.1.7.1 RTI Feedback Queue

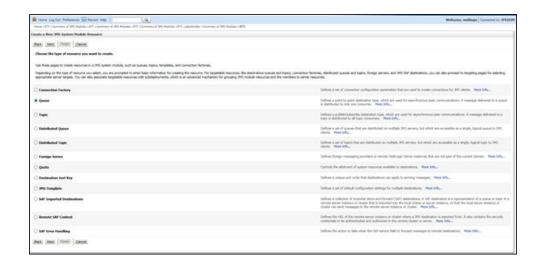
To create the RTI Feedback Queue, follow these steps:

- 1. In the Domain Structure LHS menu, click + to expand Services.
- Click + to expand Messaging.
- 3. Click JMS Modules.
- 4. Click RTI. The Settings for RTI screen is displayed.

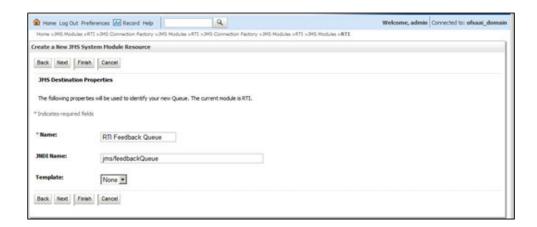




5. Click **New**. The *Create a New JMS System Module Resource* screen is displayed.



- 6. Select Queue from the list.
- 7. Click Next. The Create a New JMS System Module Resource screen is displayed.



8. Enter the following details:

Table 4-5 JMS Queue - Field Values

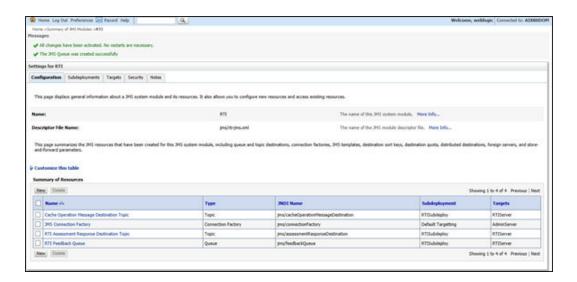
Field	Value
Name	RTI Feedback Queue
JNDI Name	jms/feedbackQueue

- Click Next.
- 10. Select the Subdeployments as RTISubDeploy.



- 11. Click Finish.
- **12.** The following confirmation message is displayed.

RTI Feedback Queue is created successfully.



4.1.7.2 Creating Remaining JMS Queues

To create the remaining JMS Queues, follow these steps:

- 1. Repeat Steps 1 11 as in section RTI feedback Queue.
- 2. Enter the values given in the following table.

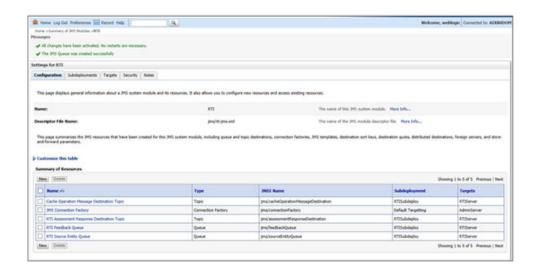


Table 4-6 WebLogic JMS Queues - Field Values

Queue Name	Fields		
	Name	JNDI name	Subdeployment
RTI Hold JMS Queue	Enter the name as RTI Hold JMS Queue	Enter the JNDI name as jms/ TransactionActionQu e ue	Select the Subdeployment as RTISubDeploy
RTI Source Entity Queue	Enter the name as RTI Source Entity Queue	Enter the JNDI name as jms/ sourceEntityQueue	Select the Subdeployment as RTISubDeploy
Wire Transaction Source Entity Queue	Enter the name as Wire Transaction Source Entity Queue	Enter the JNDI name as jms/ wireTrxnQueue	Select the Subdeployment as RTISubDeploy

3. The following confirmation message is displayed.

The JMS Queue was created successfully.



4.1.8 Restart Weblogic Domain

For more information, refer to the **Start/Stop Infrastructure Services** section in the *Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide* available on the OHC page.

4.2 Configuring IPE in WebSphere

This section explains the WebSphere configuration for IPE and includes the following topics:

- · Login to WebSphere
- JMS Providers
- JMS Connection Factories
- JMS Queues
- JMS Topics



Login to WebSphere

To configure IPE on WebSphere follow these steps:

Bus Creation

For Bus Creation, execute the following steps.

• Bus Member Creation

To create a Bus Member follow these steps:

Configuring JMS Providers

This section discusses the configuration of JMS providers.

Configuring JMS Connection Factory

This section explains about configuring JMS Connection Factory.

Configuring JMS Queues

This section discusses the following JMS Queues which are to be created:

- · Configuring JMS Topics
- RMI/IIOP Authentication Settings

This section describes the steps for authentication settings. For security setting, follow these steps:

Restart WebSphere Profile

4.2.1 Login to WebSphere

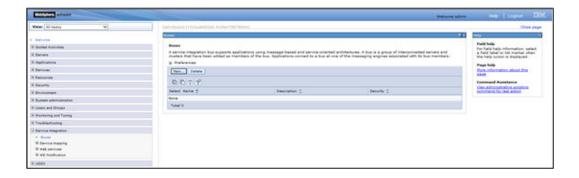
To configure IPE on WebSphere follow these steps:

- 1. Open the following URL in the browser window: http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login window is displayed.
- 2. Login with the Administrator **Username** and **Password**.

4.2.2 Bus Creation

For Bus Creation, execute the following steps.

- 1. Click + to expand Service Integration in the LHS menu.
- 2. Click **Buses**. The Buses page is displayed.



3. Click **New**. The *Create a New Service Integration Bus* screen is displayed.



- 4. Enter the name as RTIServer.
- 5. Un-check Bus security.
- 6. Click Next.



- 7. Click Finish.
- 8. Click Save.

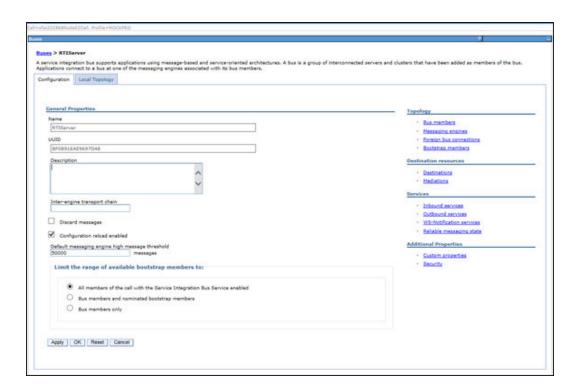


4.2.3 Bus Member Creation

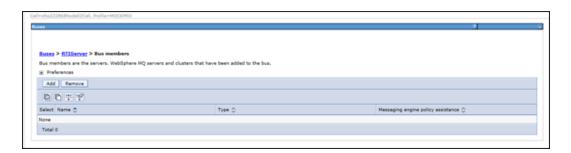
To create a Bus Member follow these steps:

- 1. Click + to expand **Service Integration** in the LHS menu.
- 2. Click Buses.
- 3. Click **RTIServer**. The *RTI Server* screen is displayed.

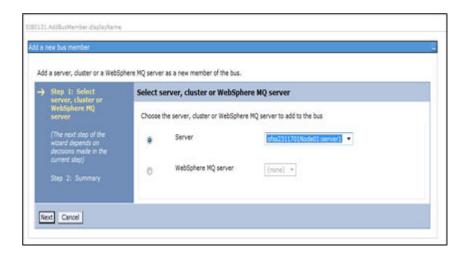




4. In the Topology section, click **Bus members**. The *Bus members* screen is displayed.



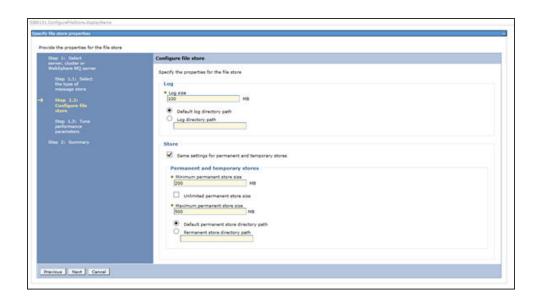
- 5. Click **Add**. The *Add a New Bus Member* screen is displayed.
- 6. Select Server.



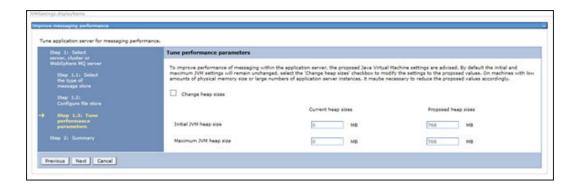
7. Click Next.



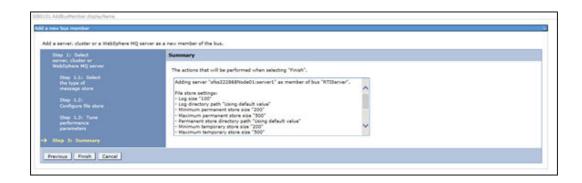
- 8. Select File Store.
- 9. Click Next.



10. Click Next.



11. Click Next.



12. Click Finish. The Buses screen is displayed.



13. Click Save.

4.2.4 Configuring JMS Providers

This section discusses the configuration of JMS providers.

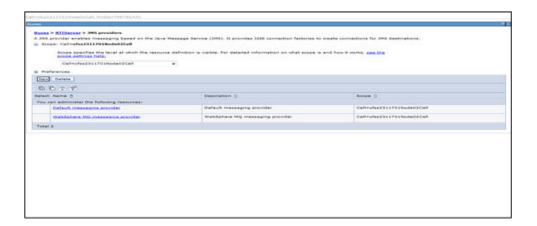
To navigate to JMS Providers sections, follow these steps:

- 1. Click + to expand Resources.
- Click + to expand JMS.
- 3. Click **JMS Providers**. The *JMS Providers* screen is displayed.
- 4. Select Cell as Scope.

For example, Cell=OFSA80Node02Cell.



5. Verify that the Default messaging provider exists.



4.2.5 Configuring JMS Connection Factory

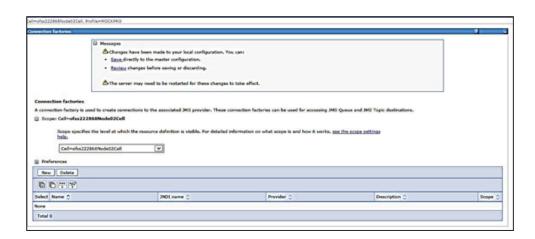
This section explains about configuring JMS Connection Factory.



For information about the ports used, refer to section Check Ports in WebSphere.

To configure JMS Connection Factory, follow these steps:

- Click + to expand Resources.
- 2. Click + to expand JMS.
- 3. Click **Connection Factories**. The *Connection Factories* screen is displayed.

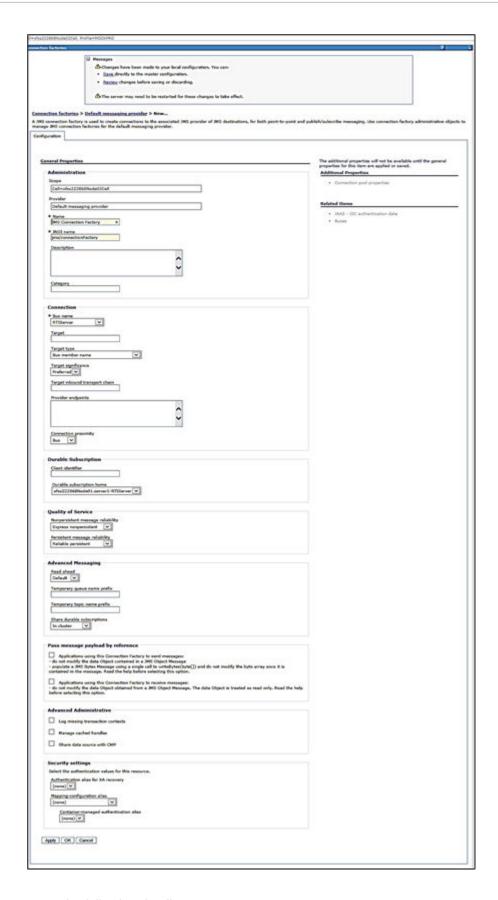


- 4. Select the Scope as Cell.
 - For example, Cell=OFSA80Node02Cell.
- Click New.



- 6. Select Default Messaging Provider option.
- 7. Click **OK**. The *JMS Connection Factory* screen is displayed.



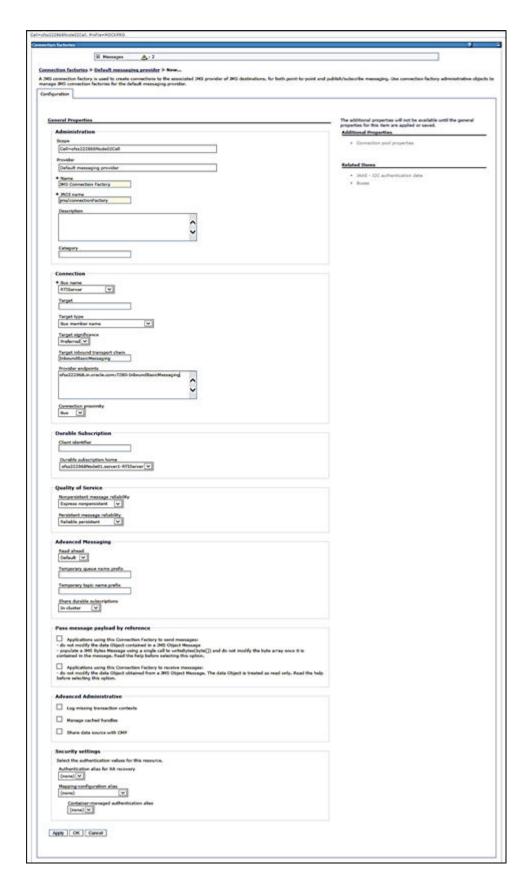


8. Enter the following details:

Table 4-7 JMS Connection Factory: Field Values

Field	Value	Description
Name	JMS Connection Factory	Enter the name of JMS Connection Factory
JNDI name	jms/connectionFactory	Enter the JNDI name for the JMS connection factory
Bus Name	RTIServer	Select the bus name.
Target Inbound Transport Chain	<transport chain="" name=""></transport>	Enter the transport chain name. Refer Appendix C for Transport chainname.
		For example:InboundBasicMessagi ng
Provider endpoints	<pre><hostname> : <sib_endpoint_address port="">: <transport chain="" name=""></transport></sib_endpoint_address></hostname></pre>	Enter the transport chain name. Refer Appendix C for Provider endpoints.
	ports. Chansport onain Names	For example: ofss222868.in.oracle.com:7280 :InboundBas icMessaging





9. Click **Apply** and save the details.

4.2.6 Configuring JMS Queues

This section discusses the following JMS Queues which are to be created:

- RTI Source Entity Queue
- RTI Hold JMS Queue
- RTI Feedback Queue
- Wire Transaction Source Entity Queue
- Configuring RTI Source Entity Queue
 To create RTI Source Entity Queue, follow these steps:
- Creating remaining JMS Queues
 Similarly, to create the remaining queues, follow these steps:

4.2.6.1 Configuring RTI Source Entity Queue

To create RTI Source Entity Queue, follow these steps:

- 1. Click + to expand **Resources** in the LHS menu.
- Click + to expand JMS.
- Click Queues.

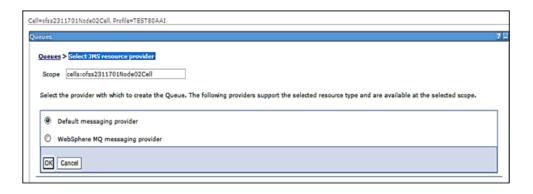


4. Select Scope as Cell.

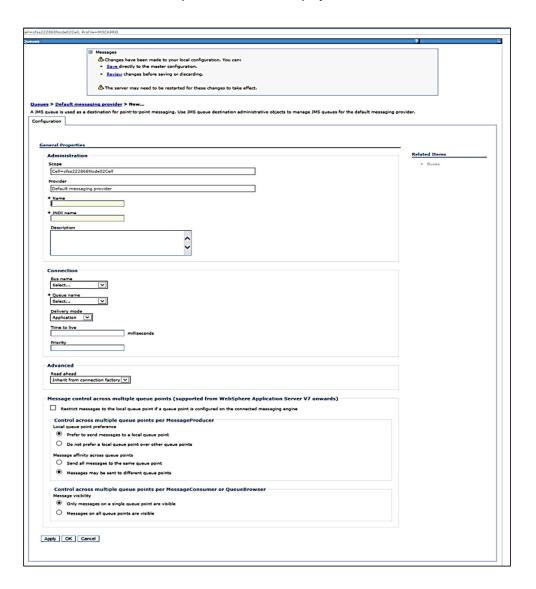
For example, cell=OFSA80Node02Cell.

5. Click **New**. The *Select JMS resource provider* screen is displayed.





- 6. Select Default Messaging Provider.
- 7. Click **OK**. The General Properties section is displayed.

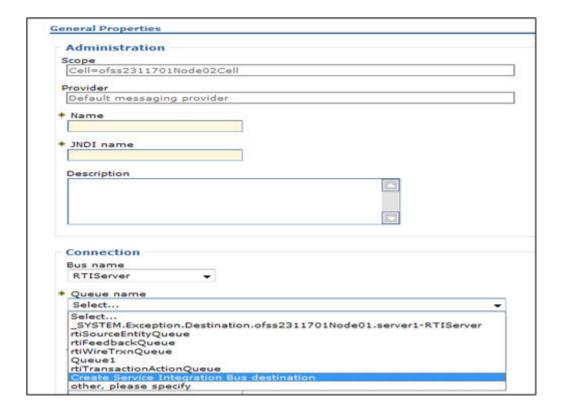


8. Enter the following details:

Table 4-8 JMS Queues General Properties - Field Values

Field	Value
Name	RTI Source Entity Queue
JNDI Name	jms/sourceEntityQueue
Bus Name	RTIServer

9. Select Create Service Integration Bus destination from Queue Name.



10. The Set queue attributes screen is displayed.



- 11. Enter the Identifier as rtiSourceEntityQueue.
- 12. Click Next.

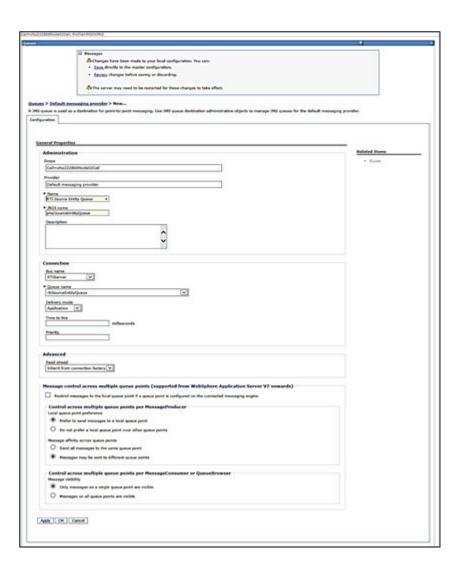




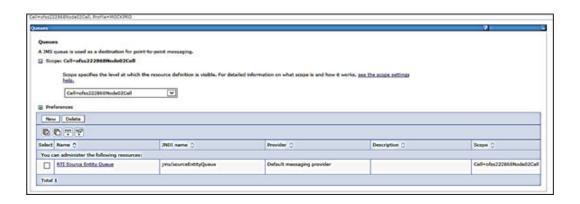
13. Click Next.



14. Click **Finish**. The *Configuration* screen is displayed.



15. Click Apply and save the details.



4.2.6.2 Creating remaining JMS Queues

Similarly, to create the remaining queues, follow these steps:

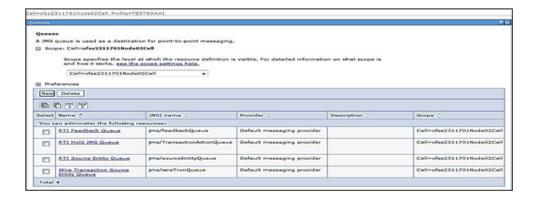
1. Repeat Steps 1 - 15 from section RTI Source Entity Queue.

2. Enter the following details:

Table 4-9 WebSphere JMS Queues - Field Values

Queue Name	Fields			
	Name	JNDI name	Bus name	Queue Identifier
RTI Hold JMS Queue	Enter the name as RTI Hold JMS Queue	Enter the JNDI name as jms/ TransactionActio nQu eue	Select the Bus name as RTIServer	Enter the Queue as rtiTransactionAct ionQueue
RTI Feedback Queue	Enter the name as RTI Feedback Queue	Enter the JNDI name as jms/ feedbackQueue	Select the Bus name as RTIServer	Enter the Queue as rtiFeedbackQue ue
Wire Transaction Source Entity Queue	Enter the name as Wire Transaction Source Entity	Enter the JNDI name as jms/ wireTrxnQueue	Select the Bus name as RTIServer	Enter the Queue as rtiWireTrxnQueu e

3. The JMS Queues are created successfully.



4.2.7 Configuring JMS Topics

This section discusses the following JMS Topics which are to be created:

- Creating RTI Cache Operation Message Destination Topic To create JMS topics, follow these steps:
- Creating RTI Assessment Response Destination Topic
 To create an RTI Assessment Response Destination Topic, follow these steps:

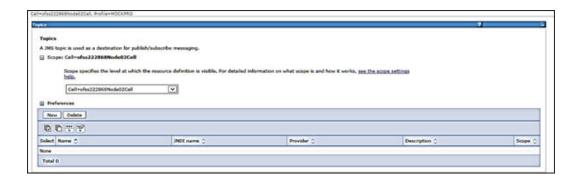
4.2.7.1 Creating RTI Cache Operation Message Destination Topic

To create JMS topics, follow these steps:

- 1. Click + to expand Resources in the LHS menu.
- Click + to expand JMS.
- 3. Click Topics.
- 4. Select Cell as Scope.



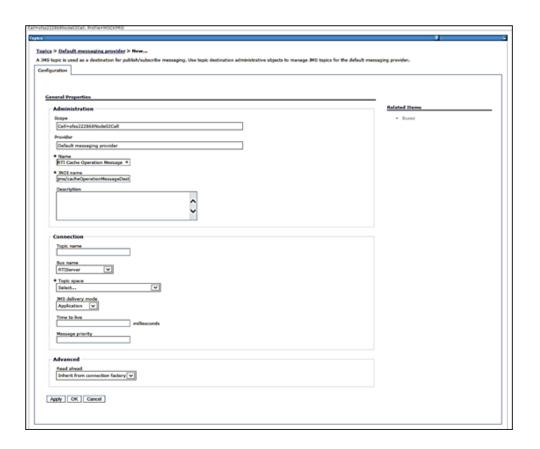
For example Cell=OFSA80Node02Cell.



5. Click **New**. The *Select JMS resource provider* screen is displayed.



- 6. Select Default messaging provider.
- 7. Click **OK**. The *Configuration* screen is displayed.

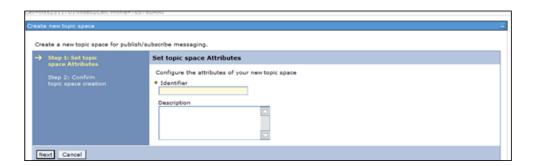


8. Enter the following details:

Table 4-10 JMS Topic General Properties - Field Values

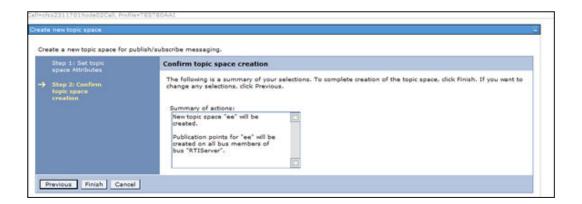
Field	Value	
Name	RTI Cache Operation Message Destination Topic	
JNDI Name	jms/cacheOperationMessageDestination	
Bus Name	RTIServer	

- 9. Select Create Service Integration Bus Destination from Topic space.
- 10. The Create new topic space screen is displayed.



11. Enter the Identifier as rtiCacheOperationTopic.

12. Click Next.



- 13. Click Finish. The Configuration screen is displayed.
- 14. Click Apply and save details.

4.2.7.2 Creating RTI Assessment Response Destination Topic

To create an RTI Assessment Response Destination Topic, follow these steps:

- 1. Repeat Steps 1-14 from section RTI Cache Operation Message Destination Topic.
- 2. Enter the following details:

Table 4-11 RTI Assessment Response Destination Topic Details

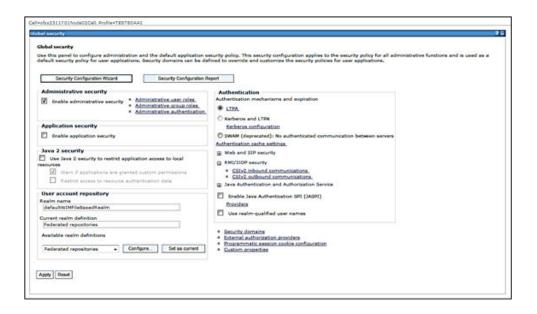
Field	Value
Name	RTI Assessment Response Destination Topic
JNDI name	jms/assessmentResponseDestination
Bus name	RTIServer
Topic Space Identifier	rtiAssessmentResponseDestinationTopic

4.2.8 RMI/IIOP Authentication Settings

This section describes the steps for authentication settings. For security setting, follow these steps:

- 1. Click + to expand **Security** in the LHS menu.
- Click + to expand Global Security.
- 3. Click + to expand RMI/IIOP security under Authentication section.

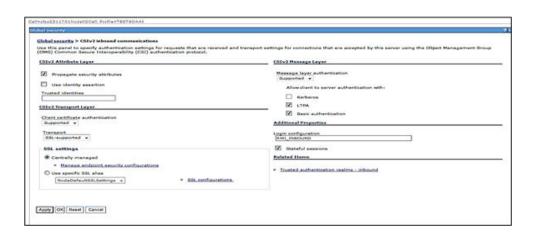




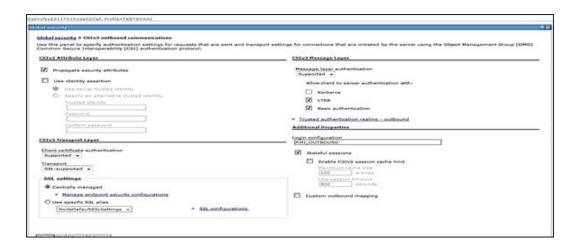
- Click CSIv2 inbound communications/CSIv2 outbound communications.
- 5. Select the following values:

Table 4-12 RMI/IIOP authentication Settings

RMI/IOP Security	Client certificate authentication	Transport
CSIv2 inbound communications	Supported	SSL-supported
CSIv2 outbound communications	Supported	SSL-supported







6. Click Apply and save details.



RMI/IIOP Authentication Settings are not required for WebLogic.

4.2.9 Restart WebSphere Profile

For more information, refer to the Start/Stop Infrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide available onthe OHC page.

4.3 Configuring IPE in Tomcat

This section provides details for configuring IPE in Tomcat and includes the following topics:

- Prerequisites
 The following are the prerequisites for Tomcat configuration:
- Configuring Tomcat
 Perform the following procedure to configure Tomcat:

4.3.1 Prerequisites

The following are the prerequisites for Tomcat configuration:

Before deployment, make required changes in App layer.

4.3.2 Configuring Tomcat

Perform the following procedure to configure Tomcat:

1. Create the datasource for ILP context in Tomcat by editing the <code>server.xml</code> file in the <code><TOMCAT_HOME_DIR>/conf</code> directory.



The following example is a sample configuration. Update your database details accordingly. Make sure the context name matches the directory name under webapps. In the following example, ILP is the context name

```
<Context path="/ILP"
          docBase="/scratch/ofsaobie/apache-tomcat- 8.0.21/webapps/
ILP" debug="0"
          reloadable="false" crossContext="true"><Loader
delegate="true"/><Resource
        auth="Container"name="jdbc/FICMASTER"
type="javax.sql.DataSource"driverClassName="oracle.jdbc.driver.Oracl
eDriver" username="act obiconf"password="password"
url="jdbc:oracle:thin:@whf00agr:1521/DEVUT08SPRINT"
          maxTotal="100"maxIdle="30"maxWaitMillis="10000"
          removeAbandoned="true" removeAbandonedTimeout="60"
          logAbandoned="true"/><Resource</pre>
        auth="Container"name="jdbc/OFSAAAIINFO"
          type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
username="act obiatm"
        password="password"url="jdbc:oracle:thin:@whf00aqr:1521/
DEVUT08SPRINT" maxTotal="100"maxIdle="30"maxWaitMillis="10000"
removeAbandoned="true"
        removeAbandonedTimeout="60" logAbandoned="true"/><Resource</pre>
auth="Container"name="jdbc/OFSAAAIINFOCNF"
        type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
        username="act obiatm"password="password"
url="jdbc:oracle:thin:@whf00agr:1521/DEVUT08SPRINT"
        maxTotal="100"maxIdle="30"maxWaitMillis="10000"
removeAbandoned="true"
        removeAbandonedTimeout="60" logAbandoned="true"/> 
Context>
```

2. Update the following parameters in the install.properties file in the \$FIC HOME/ILP/conf directory:

```
sql.config.datasource.jndi.name=java:comp/env/jdbc/FICMASTER
sql.atomic.datasource.jndi.name=java:comp/env/jdbc/<RTI_INFODOM>
sql.metadom.datasource.jndi.name=java:comp/env/jdbc/<RTI_INFODOM>CNF
```

Note:

Name should match the Resource Name defined in the server.xml file.

3. Update the application-env.properties file in file in file in file in file in file file file for after commenting out the parameter

spring.profiles.active=JMS,JMSApplicationCache,JMSGateway,JMSFeedBackG
a teway

and adding

spring.profiles.active=

The following is an example and the changes shown will remove the JMS dependencies for IPE.

```
#
# The spring profiles to activate. The list of available profiles are:
# 1. JMS - To activate the use of JMS infrastructure. This is required for
# activating any other JMS profile
# 2. JMSGateway - To activate JMS interface for receiving source entities
# 3. JMSApplicationCache - To activate JMS for receiving cache refresh
messages
# 4. JMSFeedBackGateway - To activate the Feedback message from APPS like
FCCM in JMS
#
#spring.profiles.active=JMS, JMSApplicationCache, JMSGateway, JMSFeedBackG
ateway
spring.profiles.active=
```

4. Copy the following jars from the FIC_HOME/realtime_processing/additionaljars/tomcat directory to the fichome/realtime_processing/WEB-INF/lib directory:

```
jms-api-1.1-rev-1.jar
javax.ws.rs-api-2.0.1.jar
```

- 5. Execute the ant.sh script to create ilp.ear and ilp.war files from the fichome/ realtime processing directory.
- 6. Copy the ilp.war file to the TOMCAT HOME/webapps directory (not required to explode).
- 7. Restart the Tomcat server.

4.4 Configuring IPE in Kafka

This section provides details for configuring IPE in Kafka and includes the following topics:

Prerequisites

The following are the prerequisites for Kafka configuration:

Configuring Kafka

Perform the following procedure to configure Kafka:

Testing Kafka Configuration

Perform the following procedure to test the Kafka configuration:

4.4.1 Prerequisites

The following are the prerequisites for Kafka configuration:

Before deployment, make required changes in App layer.

4.4.2 Configuring Kafka

Perform the following procedure to configure Kafka:

1. Create the datasource for ILP context in Tomcat by editing the server.xml file in the <TOMCAT HOME DIR>/conf directory.



Note:

The following example is a sample configuration. Update your database details accordingly. Make sure the context name matches the directory name under webapps. In the following example, ILP is the context name.

```
<Context path="/ILP" docBase="/scratch/ofsaobie/apache-tomcat-
8.0.21/webapps/ILP" debug="0" reloadable="false"
crossContext="true">
<Loader delegate="true"/>
<Resource auth="Container"</pre>
name="jdbc/FICMASTER" type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
username="act obiconf"
password="password" url="jdbc:oracle:thin:@whf00agr:1521/
DEVUT08SPRINT" maxTotal="100"
maxIdle="30"
maxWaitMillis="10000" removeAbandoned="true"
removeAbandonedTimeout="60" logAbandoned="true"/>
<Resource auth="Container"</pre>
name="jdbc/OFSAAAIINFO" type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
username="act obiatm"
password="password" url="jdbc:oracle:thin:@whf00agr:1521/
DEVUT08SPRINT" maxTotal="100"
maxIdle="30"
maxWaitMillis="10000" removeAbandoned="true"
removeAbandonedTimeout="60" logAbandoned="true"/>
<Resource auth="Container"</pre>
name="jdbc/OFSAAAIINFOCNF" type="javax.sql.DataSource"
driverClassName="oracle.jdbc.driver.OracleDriver"
username="act obiatm"
password="password" url="jdbc:oracle:thin:@whf00aqr:1521/
DEVUT08SPRINT" maxTotal="100"
maxIdle="30"
maxWaitMillis="10000" removeAbandoned="true"
removeAbandonedTimeout="60" logAbandoned="true"/>
</Context>
```

2. Update the following parameters in the install.properties file in the fichome/ realtime processing/conf directory:

```
sql.config.datasource.jndi.name=java:comp/env/jdbc/FICMASTER
sql.atomic.datasource.jndi.name=java:comp/env/jdbc/<RTI_INFODOM>
sql.metadom.datasource.jndi.name=java:comp/env/jdbc/<RTI_INFODOM>CNF
```

Note:

Name should match the Resource Name defined in the server.xml file.

3. Update the \$TOMCAT_HOME/webapps/ILP/conf/install.properties file for kafka broker details, the inbound topic names, and outbound topic names as shown in the following example:

```
kafka.bootstrap-servers=whf00act.in.oracle.com:9092
kafka.inbound.topic.group.id=IPE kafka.inbound.topic=IPERT.t
kafka.outbound.topic=IPERESPONSE.t kafka.consumer.num=5
kafka.inbound.partitions=10 kafka.inbound.poll.timeout=3000
```

4. Update the application-env.properties file in \$TOMCAT_HOME/webapps/ILP/conf directory after commenting out the parameter

spring.profiles.active=JMS, JMSApplicationCache, JMSGateway, JMSFeedBackGa
teway

and adding

spring.profiles.active=IPEKAFKA



The preceding example changes will remove the JMS dependencies for IPE and enable Kafka.

5. Update the web.xml file in the \$TOMCAT_HOME/webapps/ILP/WEB-INF directory (append the ,/conf/applicationContext-kafka.xml file in the end under param contextConfigLocation).

/conf/applicationContext.xml,/conf/applicationContext- jms.xml,/conf/
applicationContext- jmx.xml,/conf/ext/spring*.xml,/conf/applicationContextkafka yml

- **6.** Copy the following jars from the fichome/realtime_processing/additionaljars directory to the fichome/realtime processing/WEB-INF/lib directory:
 - a. spring-messaging-4.2.3.RELEASE.jar
 - b. spring-kafka-1.2.0.RELEASE.jar
 - c. spring-integration-kafka-2.0.1.RELEASE.jar
 - d. kafka-clients-0.11.0.0.jar
 - e. slf4j-log4j12-1.4.3.jar
 - f. slf4j-api-1.4.3.jar
 - g. jms-api-1.1-rev-1.jar
 - h. javax.ws.rs-api-2.0.1.jar
- 7. Update the following in the server.properties file under config directory:

```
num.partitions=200 auto.create.topics.enable=true
```

- 8. Execute the ant.sh script to create ilp.ear and ilp.war files from the fichome/ realtime_processing directory.
- 9. Copy the ilp.war file to the TOMCAT HOME/webapps directory.
- 10. Restart the Tomcat server to deploy ilp.war.



4.4.3 Testing Kafka Configuration

Perform the following procedure to test the Kafka configuration:



The examples shown in this section display port number, URL, and request for illustrative purposes only. You must enter the correct values for the port number, URL and request as it exists in your application.

1. Use the following command to stop all Tomcat servers:



9092 is the port number of the URL.

2. Use the following command to stop all Kafka servers:

```
ps -eaf | grep kafka
```



CTRL+C will kill all kafka related process.

- 3. Open four putty sessions, one each for zookeeper, server, producer and consumer. Enter the following commands in the respective sessions after changing the path to kafka:
 - Zookeeper session: bin/zookeeper-server-start.sh config/ zookeeper.properties
 - Server session: bin/kafka-server-start.sh config/server.properties
 - **Producer session**: bin/kafka-console-producer.sh --broker-list whf00bfk.in.oracle.com:9092 --topic IPERT.t
 - Consumer session: bin/kafka-console-consumer.sh --bootstrap-server whf00bfk.in.oracle.com:9092 --topic IPERESPONSE.t
- 4. Start Tomcat.
- 5. Enter the following request in the producer window in a single line:

```
"eg: { ""type"" : ""DIM_ACCOUNT"",""domain"" :
""FRA"",""appId"" :
```



```
""OFS_IPE"",""runtype"" : 1,""runParam"" : 1,""attributes"" : {""Account Skey"" : ""500"",""Account Description"" : ""ASD"" },""additionalParams"" : { }} "
```

- 6. Check for the results in the Consumer window.
- 7. Check for results in rti_eval_assmnt_result and rti_assmnt_result.



Post data in JSON format to IPE

JSON requests are posted through REST services in IPE Realtime Mode. The subsections in this topic provides information on how to post data in JSON format using HTTP requests and receive responses from the server.

Prerequisites

The following are the prerequisites to post JSON requests in IPE:

Posting JSON request for REST services
 The following is the procedure to post JSON requests for REST services:

5.1 Prerequisites

The following are the prerequisites to post JSON requests in IPE:

- 1. Install a JSON client on your local computer.
- 2. User access for authentication on the server.
- 3. Knowledge about posting JSON requests.

5.2 Posting JSON request for REST services

The following is the procedure to post JSON requests for REST services:

- Open the JSON client.
- 2. Select or enter Method as POST.
- 3. Enter the server URL in Request URL.
- 4. Enter the Header parameters as shown in the following table:

Table 5-1 JSON Request Header Parameters

No.	Header Name	Header Value	Description
1	username	Enter the user name to login to the server.	This value is used for user authentication.
2	password	Enter the password to login to the server.	This value is used for user authentication.
3	content-type	Select or enter application/json.	This value denotes that the data in JSON format.
4	accept	Select or enter application/json.	This value denotes that the data in JSON format

5. Select application/json for Body content type.



6. Enter the JSON message in the body. The following code sample is an example:

```
{
"type": "DIM_ACCOUNT",
"domain": "FRA",

"appId": "OFS_IPE",
"runtype": 1,
"runParam": 1, "attributes": {
"Account Skey": 181, "Account Description": "ABC"
},
"additionalParams": {}
}
```

The following is the convention for the data in the fields of the preceding code sample:

```
{
"type": <ACTIVITY Table>, "domain": <Processing Segment>, "appId":
<Product ID>, "runtype": 1,
"runParam": 1, "attributes":
{
    <Required attributes/Business Column names of activity table>:
    <Values>
},
"additionalParams": {}
}
```

7. Send the JSON message from the client to the server. The server provides a response message with values for successful posting or for errors, if any.



Additional Configuration

To use IPE framework without a Sample Application, perform the following additional configuration.

Updating Install Properties

To update the install properties, follow these steps:

Creating ILP.ear/ ILP.war

It is mandatory to have the ILP.ear in the same profile or domain where the <contextname>.ear file of the OFS AAAI Application is deployed.

Deploying ILP.ear in Weblogic

This section defines how to deploy ILP.ear in Weblogic.

Logging

Once the sample application client is triggered, the logs get written onto RTI-server.log from the path <<ILP deploy area>>/logs

6.1 Updating Install Properties

To update the install properties, follow these steps:

- Login to the UNIX machine where the OFS AAAI Application Pack is installed with IPE enabled.
- Navigate to <OFSAA Installation Directory>/realtime_processing/WebContent/conf.
- **3.** Edit install.properties and provide the following information:

Table 6-1 Additional configuration for without sample application

Parameter Code	Value	Description
<rti_infodom></rti_infodom>	< Infodom Name >	Infodom Name used for IPE For example, OFSAAAIINFO
<rti_segment></rti_segment>	< default IPE processing segment code>	Enter the default IPE Processing Segment Code.
		For example, FRA

Updating install properties to enable Highlights in Real-Time

The following is an example of the install properties file

The following is an example of the install properties.

The following is an example of the install properties.

The following is an example of the install.properties file with Highlights in Real-Time disabled.

IPE Caching

To perform caching in IPE, follow these steps:

6.1.1 Updating install.properties to enable Highlights in Real-Time

The following is an example of the <code>install.properties</code> file with Highlights in Real-Time disabled.

To enable, set the parameter ipe.produce.hglights.results=false to ipe.produce.hglights.results=true in the file.

```
sql.config.datasource.jndi.name=jdbc/FICMASTER
sql.atomic.datasource.jndi.name=jdbc/OFSAAAIINFO
sql.metadom.datasource.jndi.name=jdbc/OFSAAAIINFOCNF
system.infodom=OFSAAAIINFO system.domain=FRA system.appid=OFS_IPE
deployment.assessment.execution.mode=LIVE deployment.datastore=RDBMS
deployment.test.java.naming.initial.context.factory=
deployment.test.java.naming.provider.url= batch.audit.backup=true
ipe.persist.eval.results=false process.maxalert.count=100
action.json.constant=200 action.json.response.url= aai.auth.url=
kafka.bootstrap-servers= kafka.inbound.topic.group.id=IPE
kafka.inbound.topic=IPERT.t kafka.outbound.topic=IPERESPONSE.t
ipe.produce.hglights.results=false kafka.consumer.num=5
kafka.inbound.partitions=10 kafka.inbound.poll.timeout=3000
```

6.1.2 IPE Caching

To perform caching in IPE, follow these steps:

- 1. Connect to OFSAA Configuration schema.
- 2. Replace the placeholders with the following information in the update queries.
- 3. Run the update gueries.

Table 6-2 Update queries

Parameter Code	Value	Description
<initialfactor y=""></initialfactor>	< initial context for app server>	Initial Context for the Web Application Server
		Websphere: com.ibm.websphere.naming. WsnInitialContextFactory
		Weblogic: weblogic.jndi.WLInitialContex tFactory
<provider_url></provider_url>	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	URL for accessing Queues and Topics in Web Application server. For more information, refer to Appendix A.

4. Update configuration c set c.PARAMVALUE='<INITIALFACTORY>' where c.paramname ='RTI_PROCESSING_INITIALCONTEXTFACTORY' / Update configuration c set c.PARAMVALUE='<PROVIDER_URL>' where c.paramname ='RTI PROCESSING PROVIDER URL'/

6.2 Creating ILP.ear/ ILP.war

It is mandatory to have the <code>ILP.ear</code> in the same profile or domain where the <contextname>.ear file of the OFS AAAI Application is deployed.

To create ILP.ear/ ILP.war, follow these steps:

- Navigate to < OFSAA Installation Directory >/realtime_processing.
- 2. Execute the command:

```
/scratch/ofsacbie/AAAI 80/realtime_processing>ls
ant.sh application.xml build.xml ILP.ear ILP.war ipesampleapp WebContent
/scratch/ofsacbie/AAAI 80/realtime_processing>./ant.sh
executing "ant"
Buildfile: build.xml
createwar:
createear:
BUILD SUCCESSFUL
Total time: 0 seconds
/scratch/ofsacbie/AAAI_80/realtime_processing>[]
```

./ant.sh.

3. On successful execution, the ILP.ear and ILP.war files are generated under the <OFSAA Installation Directory >/realtime processing folder.

6.3 Deploying ILP.ear in Weblogic

This section defines how to deploy ILP.ear in Weblogic.



- 1. It is mandatory to have ILP.ear in the same domain where <contextname>.ear of the OFS AAAI Application is deployed.
- 2. Do not deploy ilp.ear on Sanctions TFLT, the installation will fail.

To deploy ILP.ear in Weblogic, follow these steps:

- 1. Start the Weblogic server.
- 2. Create an ILP.ear folder in

```
<WEBLOGIC INSTALL DIR>/user projects/domains/<DOMAIN NAME>/applications
```

- 3. Copy <FIC_HOME>/realtime_processing/ILP.ear to <WEBLOGIC_INSTALL_DIR>/ user projects/domains/<DOMAIN NAME>/applications/ILP.ear/.
- **4.** Explode the ILP.ear file by executing the command:

```
jar -xvf ILP.ear
```

- 5. Delete the ILP.ear and IPL.war files.
- 6. Create an ILP.war folder in <WEBLOGIC_INSTALL_DIR>/user_projects/domains/ <DOMAIN_NAME>/applications/ILP.ea r
- 7. Copy <FIC_HOME>/realtime_processing/ILP.war to <WEBLOGIC_INSTALL_DIR>/ user_projects/domains/<DOMAIN_NAME>/applications/ILP.ear/ ILP.war

8. Explode the ILP.war file by executing the command:

```
jar -xvf ILP.war.
```

- Delete the ILP.war file.
- Installing ILP.ear in WebLogic using WebLogic Administrator Console
 Peform the following steps for installing ILP.ear in WebLogic using WebLogic
 Administrator Console.
- Deploying ILP.ear in WebSphere
 To deploy ILP.ear. in WebSphere, follow these steps:

6.3.1 Installing ILP.ear in WebLogic using WebLogic Administrator Console

Peform the following steps for installing ILP.ear in WebLogic using WebLogic Administrator Console.

- 1. Navigate to the path WEBLOGIC_INSTALL_DIR>/user_projects/domains/
 <DOMAIN NAME>/bin in the machine in which WebLogic is installed.
- **2.** Start WebLogic by executing the command:

```
./startWebLogic.sh -d64 file
```

3. Open the following URL in the browser window: http://
<ipaddress>:<administrative console port>/console.

(Use https protocol if SSL is enabled). The Welcome window is displayed.

 Login with the Administrator Username and Password. The Summary of Deployment page is displayed.



5. Click **Install**. The *Install Application Assistance* page is displayed.

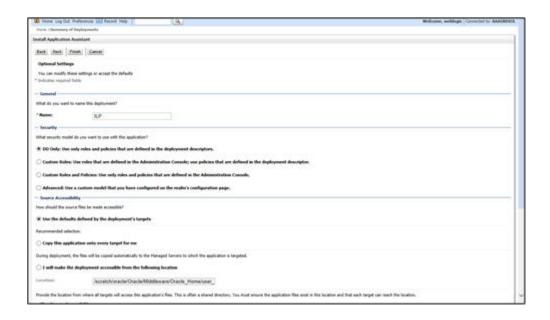




6. Select **ILP.ear** and click **Next**. The *Install Application Assistance* page is displayed with the Choose targeting style section.

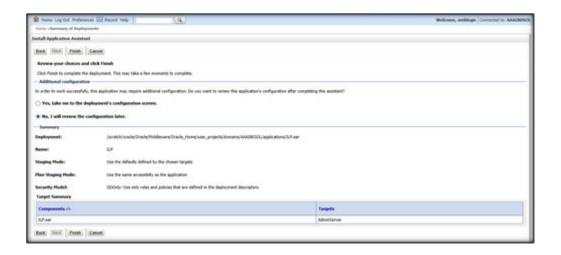


7. By default, the **Install this deployment as an application** option in the Choose targeting style section is selected. Click **Next**. The *Install Application Assistance* page is displayed with the Optional Settings section.

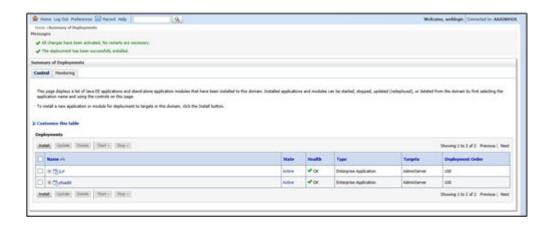


8. Retain the default selections and click **Next**. The Install Application Assistance page is displayed with the Review your choices and click Finish section.





 Select No, I will review the configuration later in the Additional Configuration section and click Finish. ILP is added in the Name section of the Summary of Deployment page with following message: The deployment has been successfully installed.



10. Restart all OFS AAAI servers. For more information, refer to the Start/ StopInfrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide available on the OHC page.

6.3.2 Deploying ILP.ear in WebSphere

To deploy ILP.ear. in WebSphere, follow these steps:



- It is mandatory to have ILP.ear in the same profile where <contextname>.ear of OFS AAAI Application is deployed.
- 2. Do not deploy **ilp.ear** on Sanctions TFLT, the installation will fail



1. Start the WebSphere Profile by navigating to the path "/

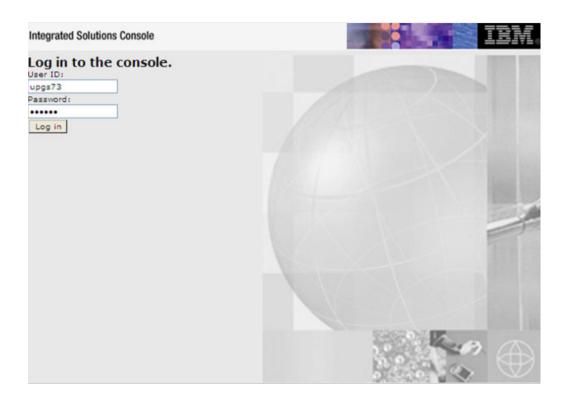
<Websphere_Installation_Directory>/IBM/WebSphere/AppServer/profiles/
<Profile Name>/ bin/" then execute the command:

./startServer.sh server1

2. Open the following URL in the browser:

http://<ipaddress>:<Administrative Console Port>/ibm/console.

Use https protocol if SSL is enabled. The login screen is displayed.

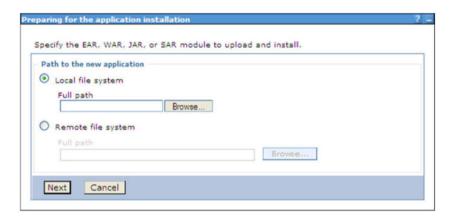


- 3. Enter the user credentials which have administrator rights and click Log In.
- **4.** From the LHS menu, select **Applications** and click **New Application**. The *New Application* window is displayed.

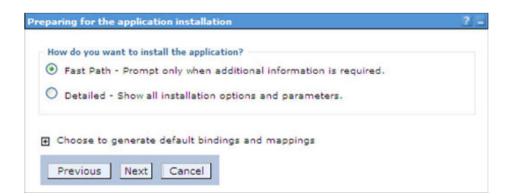




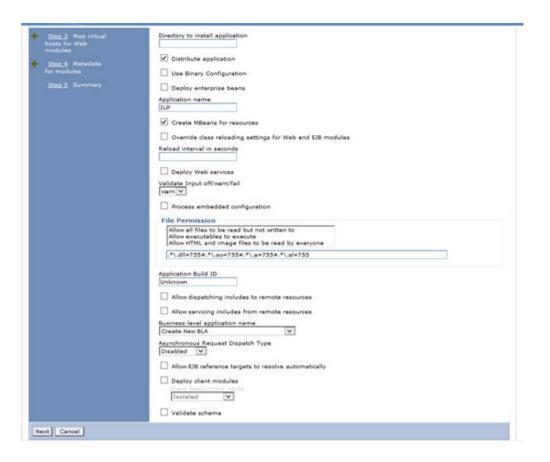
5. Click **New Enterprise Application**. The *Preparing for the application installation* page is displayed.



6. Select **Remote File System** and click **Browse**. Select the EAR file generated for IPE to upload and install. Click **Next**.



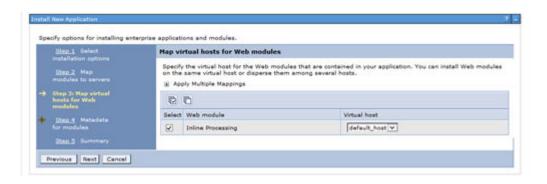
7. Select the **Fast Path** option and click **Next**. The *Install New Application* window is displayed.



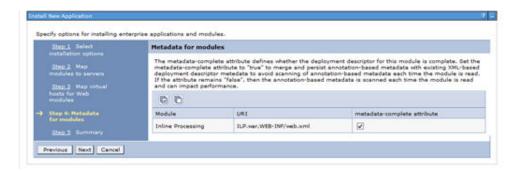
8. Click **Next**. The *Map Modules to Servers* page is displayed.



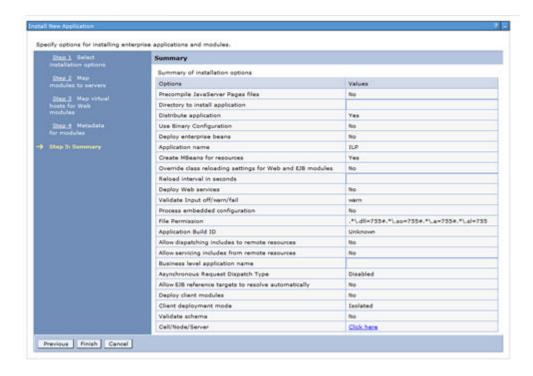
Select the Inline Processing checkbox and click Next. The Map Virtual hosts for Web modules page is displayed.



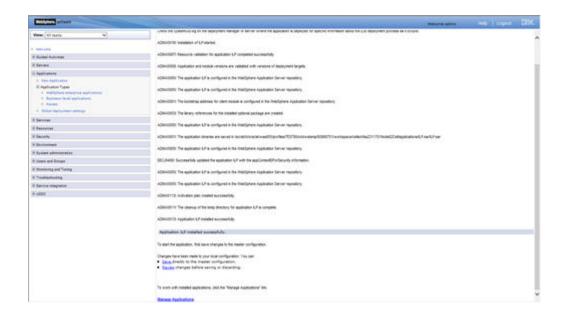
 Select the Inline Processing checkbox and click Next. The Metadata for modules page is displayed.



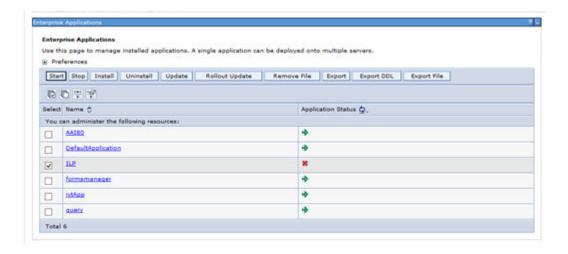
11. Select the **Metadata-complete** attribute checkbox and click **Next**. The *Summary* page is displayed.



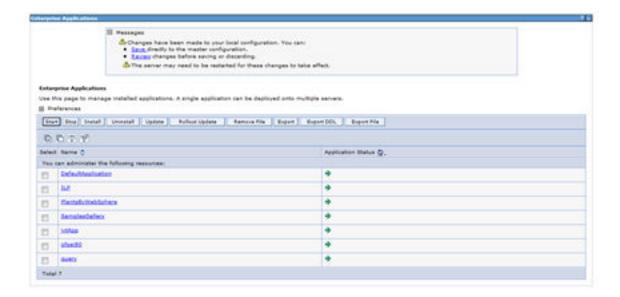
12. Click Finish. On successful installation, a message is displayed.



13. Click **Save** and save the master file configuration. The details are displayed in the *Master File Configuration* page.



14. Select **ILP** and click **Start**. The *Enterprise Application* page is displayed with confirmation message.



15. Restart all OFS AAAI servers. For more information, refer to the Start/ StopInfrastructure Services section in the Oracle Financial Services Analytical Applications Infrastructure Installation and Configuration Guide available on the OHC page.

6.4 Logging

Once the sample application client is triggered, the logs get written onto RTI-server.log from the path <<ILP deploy area>>/logs

By default, the log mode will be set to 'info'. If detailed logs are required then follow these steps:

- 1. Navigate to <FIC HOME>/realtime processing/WebContent/WEB-INF/
- 2. Edit the file log4j.xml to modify the level value of the code from 'info' to 'debug' as follows:

```
<logger name="com.ofs.aai">
<level value="DEBUG"/>
</logger>
```

- 3. Create ilp.ear/ilp.war. For more information, refer to the *Creating ILP.ear/ILP.warsection* in the *Oracle Financial Services Inline Processing Engine Configuration Guide* available on the OHC page.
- 4. Deploy the ILP.earfile. For more information, refer to the *Deploying ILP.ear. in Weblogic section* or *Deploying ILP.ear in Websphere* section in the Oracle Financial Services Inline Processing Engine Configuration Guide available on the OHC page.



7

HIVE Configurations

To run IPE in HIVE, perform the following configurations:



HIVE supports only batch mode processing.

- Loading UDF file in HIVE
 To load the UDF file in HIVE, follow these steps:
- Creating Result Tables
 To create Result Tables for HIVE, follow these steps:

7.1 Loading UDF file in HIVE

To load the UDF file in HIVE, follow these steps:

- 1. Copy the JAR file \$FIC_HOME/realtime_processing/ipeudf /lib/ofsaa_ipe_udf.jar to the host on which HIVEServer2 is running.
- 2. Provide the HIVE user with Read, Write and Execute permissions to this directory, and make a note of the path (For example, /opt/local/hive/lib/).
- 3. Login to the Cloudera Manager Console as an admin user and navigate to Clusters menu, click on HIVE. The HIVE service window appears.
- 4. Click the Configuration tab.



This is the Classic layout of the Cloudera Manager console.

- 5. Click Service-Wide menu and select Advanced.
- 6. Configure the HIVE Auxiliary JARs Directory property with the HIVEServer2 host path from Step 1, /opt/local/hive/lib/.
- 7. Click Save Changes. The JARs are added to <code>HIVE_AUX_JARS_PATH</code> environment variable.
- 8. Redeploy the HIVE client configuration. Follow these steps:
 - a. Navigate to the HIVE service in the Cloudera Manager Admin Console.
 - **b.** On the Actions menu, select Deploy Client Configuration.
 - c. Click Deploy Client Configuration.
- 9. Restart the HIVE service. If the HIVE Auxiliary JARs Directory property is configured but the directory does not exist, HIVEServer2 does not start. Follow these steps:

- a. On the Actions menu, select Restart.
- b. Click Restart.

7.2 Creating Result Tables

To create Result Tables for HIVE, follow these steps:

- 1. Login to the server where OFSAA is installed.
- Navigate to the path \$FIC_HOME/realtime_processing/infodomscripts/DDL/ hive and execute the scripts in create_infodom.hql file into the Datadom (HIVE schema).
- 3. The tables RTI_ASSMNT_EVAL_RESULT and RTI_ASSMNT_RESULT are created.



A

Appendix A

This section includes details on Inline Processing URL of JMS.

Inline Processing URL of JMS
 Construct URL for JMS as below.

A.1 Inline Processing URL of JMS

Construct URL for JMS as below.

Websphere [liop://<APP_SERVER_HOST_NAME>:<BOOTSTRAP_ADDRESS> For example, iiop://myhost.mydomain.com:2809



For more information, refer to the *Oracle Financial Services Analytical Applications Infrastructure Inline Processing Configuration Guide* available in the OTN page. Check the port in the *Websphere* section.

Weblogic Tt3://<APP_SERVER_HOST_NAME>:< <SERVLET PORT> (Use t3s protocol for SSL)
 For example, t3://myhost.mydomain.com:7001

Note:

<APP_SERVER_HOST_NAME> is the IP or the Host Name of a server where
WebLogic or WebSphere is installed.

B

Appendix B

This section contains details on how to check the ports in WebSphere.

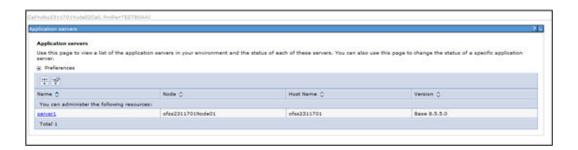
Check ports in WebSphere
 To check the ports in WebSphere, follow these steps:

B.1 Check ports in WebSphere

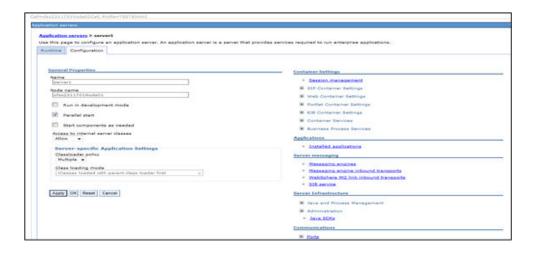
To check the ports in WebSphere, follow these steps:

enabled). The Login window is displayed.

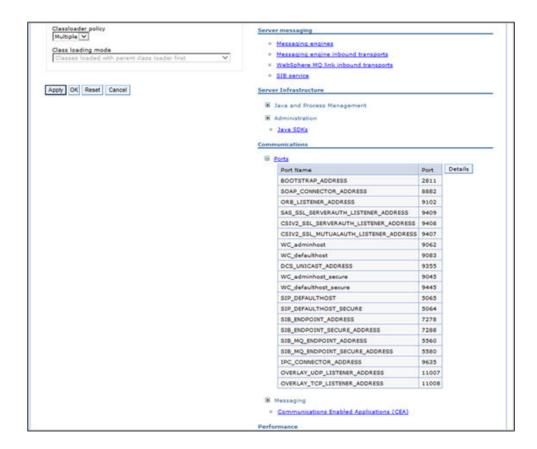
- 1. Open the following URL in the browser window: http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is
 - 2. Login with the Administrator **Username** and **Password**.
- 3. Click + to expand Servers.
- 4. Click + to Server Types.
- 5. Click WebSphere application servers.



6. Click server1.



Click + to expand Ports under Communications.



C

Appendix C

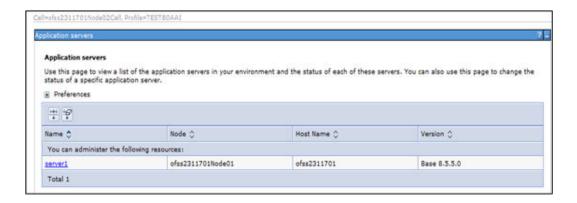
This section contains details about how to check Target Inbound transport chain and Provider endpoints values.

- Checking Target Inbound transport chain and Provider endpoints values
 To check the values, follow these steps:
- Send Us Your Comments

C.1 Checking Target Inbound transport chain and Provider endpoints values

To check the values, follow these steps:

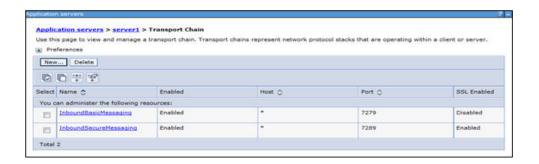
- 1. Open the following URL in the browser window:
 - http://<ipaddress>:<administrative console port>/ibm/console. (https if SSL is enabled). The Login window is displayed.
- 2. Login with the Administrator **Username** and **Password**.
- 3. Click + to expand **Servers** in the LHS menu.
- 4. Click + Server Types.
- 5. Click WebSphere application servers. The Application servers screen is displayed.



- 6. Click server1.
- Navigate to Configuration tab.



B. Under Server messaging, select Messaging engine inbound transports. The Transport Chain screen is displayed.



- Note the Transport chain name InboundBasicMessaging for Target Inbound Transport Chain.
- - <WebSphere_HostName>: The hostname of the server where WebSphere is installed.
 - <SIB_ENDPOINT_ADDRESS port>: The transport chain port corresponding for Transport chain name as InboundBasicMessaging.
 - <Transport Chain Name>: The Transport chain name as InboundBasicMessaging.

For example: ofssxxxxx.in.oracle.com:7279:InboundBasicMessaging



The transport chain name and Provider endpoints should be entered during configuration of JMS Connection Factory. Refer to section Configuring JMS Connection Factory for more details.

C.2 Send Us Your Comments

Oracle welcomes your comments and suggestions on the quality and usefulness of this publication. Your input is an important part of the information used for revision.

Did you find any errors?

- Is the information clearly presented?
- Do you need more information? If so, where?
- Are the examples correct? Do you need more examples?
- What features did you like most about this manual?

If you find any errors or have any other suggestions for improvement, indicate the title and part number of the documentation along with the chapter/section/page number (if available) and contact the Oracle Support. Before sending us your comments, you might like to ensure that you have the latest version of the document wherein any of your concerns have already been addressed. You can access My Oracle Support site which has all the revised/recently released documents.



Glossary



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