

**Oracle Financial Services Fraud
Enterprise Edition (Real Time Fraud)
Administration and Configuration Guide
Release 8.1.2.5.0
June 2023
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ORACLE
Financial Services

OFS Fraud Enterprise Edition (Real Time Fraud)

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Document Control

Table 1: Document Control

Version Number	Revision date	Change Log
8.1.2.5.0	June 2023	<ul style="list-style-type: none"> Added user roles to Mapping a User with a User Group section. Added Configuring Alert Archival section.
8.1.2.4.0	March 2023	Created the first version of Fraud Enterprise Edition (Real Time Fraud Component) Administration and Configuration Guide for 8.1.2.4.0 Release.
8.1.2.3.0	December 2022	Created the first version of Fraud Enterprise Edition (Real Time Fraud Component) Administration and Configuration Guide for 8.1.2.3.0 Release.
8.1.2.2.0	Created: September 2020	Created the first version of Fraud Enterprise Edition (Real Time Fraud Component) Administration and Configuration Guide for 8.1.2.2.0 Release.

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1 About this Guide

This guide explains the concepts for the Real Time Fraud component in the Oracle Financial Services (OFS) Fraud Enterprise Edition application and provides comprehensive instructions for configuration and system administration.

Topics:

- [Summary](#)
- [Audience](#)
- [Related Documents](#)
- [Conventions Used in this Guide](#)
- [Abbreviations Used in this Guide](#)

1.1 Summary

Before you begin the installation, ensure that you have access to the Oracle Support Portal with valid login credentials to notify us of any issues at any stage quickly. You can obtain the login credentials by contacting Oracle Support. You can find the latest copy of this document in the [Oracle Help Center](#) Documentation Library.

1.2 Audience

This guide is intended for System Administrators. Their roles and responsibilities, as they operate within OFS Real Time Fraud, include the following:

- **System Administrator:** Configures and maintains the system, user accounts and roles. Monitors data management, archives data, loads data feeds, and performs post-processing tasks. In addition, the System Administrator also reloads cache.

1.3 Related Documents

This section identifies additional documents related to the OFS Real Time Fraud component. You can access the following documents from [Oracle Help Center](#) Documentation Library:

- Oracle Financial Services Fraud Enterprise Edition (Real Time Fraud) User Guide.

1.4 Conventions Used in this Guide

[Table 2](#) lists the conventions used in this guide and their associated meanings.

Table 2: Conventions Used in this Guide

Convention	Meaning
Boldface	Boldface type indicates graphical user interface elements associated with an action (menu names, field names, options, button names) or terms defined in text or glossary.
<i>Italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Table 2: Conventions Used in this Guide

Convention	Meaning
monospace	<p>Monospace type indicates the following:</p> <ul style="list-style-type: none"> • Directories and subdirectories • File names and extensions • Process names • Code sample, that includes keywords, variables, and user-defined program elements within the text.
<variable>	Substitute input value

1.5 Abbreviations Used in this Guide

Table 3 lists the abbreviations used in this guide.

Table 3: Abbreviations and their meaning

Abbreviation	Meaning
AAI	Analytical Applications Infrastructure
BD	Behavior Detection
BIC	Bank Identifier Code
IBAN	International Bank Account Number
IPE	Inline Processing Engine
OFS	Oracle Financial Services

2 Installing OFS Wire Fraud Enterprise Edition

This chapter details on installing the Oracle Financial Services (OFS) Wire Fraud Enterprise Edition.

Topics:

- [Prerequisites](#)
- [Post-Installation Configuration](#)

2.1 Prerequisites

The prerequisites you must have before installing Oracle Financial Services (OFS) Wire Fraud Enterprise Edition are:

- OFS Behavior Detection (BD) Application Pack should be installed. For information on BD application pack installation, see [Financial Services Behavior Detection \(OFS BD\) Application Pack Installation Guides](#).

2.2 Post-Installation Configuration

On successful installation of the OFS BD Application Pack, you must perform the following configurations for OFS Wire Fraud Enterprise Edition application.

- [Configuring IPE for Real Time Wire Fraud](#)
- [Configuring IPE for Real Time Wire Fraud](#)

2.2.1 Configuring IPE for Real Time Wire Fraud

You must install the RTFWIRE service to configure Inline Processing Engine (IPE) for Real Time Fraud.

To install the RTFWIRE service, follow these steps.

- [Create the Source Entity Queue for RTF Wire](#)
- [Creating RTFWIRE.ear or RTFWIRE.war](#)
- [Configuring the JMS properties](#)
- [Deploying RTFWIRE.ear](#)
- [Commands to Execute to Import IPE Configs](#)

2.2.1.1 Create the Source Entity Queue for RTF Wire

Create the source entity queue for RTF Wire considering the following sample.

- **Queue Name:** RTI Source Entity Queue
- **JNDI Name:** jms/sourceEntityWireQueue
- **Sub deployment:** Select the Sub deployment as RTISubDeploy.

Table 4 shows a sample of JMS Queue configuration.

Table 4: Sample JMS Queue configuration

Name	Type	JNDI Name	Sub Deployment	Targets
Cache Operation Message Destination Topic	Topic	jms/cacheOperationMessageDestination	RTISubdeploy	RTIServer
JMS Connection Factory	Connection Factory	jms/connectionFactory	Default Targeting	AdminServer
RTFWire Assessment Response Destination Topic	Topic	jms/RTFWireAssessmentResponseDestination	RTISubdeploy	RTIServer
RTFWire Feedback Queue	Queue	jms/RTFWireFeedbackQueue	RTISubdeploy	RTIServer
RTFWire Hold JMS Queue	Queue	jms/RTFWireTransactionActionQueue	RTISubdeploy	RTIServer
RTFWire Source Entity Queue	Queue	jms/RTFWireSourceEntityQueue	RTISubdeploy	RTIServer
Wire Transaction Source Entity Queue	Queue	jms/wireTrxnQueue	RTISubdeploy	RTIServer

2.2.1.2 Creating RTFWIRE.ear or RTFWIRE.war

It is mandatory to have the RTFWIRE.ear in the same profile or domain where the <contextname>.ear file of the OFS BD Application is deployed. To create RTFWIRE.ear or RTFWIRE.war, follow these steps:

1. Navigate to <FIC_HOME>/RTFWireFraudIPEProcessing
2. Execute the following command:

```
./ant.sh.
```

Figure 1: Creating RTFWIRE.ear/ RTFWIRE.war

```
/scratch/ofsaaweb/BD812/BD812/RTFWireFraudIPEProcessing>./ant.sh
executing "merge"
Not TOMCAT
executing "ant"
Buildfile: /scratch/ofsaaweb/BD812/BD812/RTFWireFraudIPEProcessing/build.xml

copyrti:

createwar:
  [war] Building war: /scratch/ofsaaweb/BD812/BD812/RTFWireFraudIPEProcessing/RTFWIRE.war

createear:
  [ear] Building ear: /scratch/ofsaaweb/BD812/BD812/RTFWireFraudIPEProcessing/RTFWIRE.ear

BUILD SUCCESSFUL
Total time: 2 seconds
/scratch/ofsaaweb/BD812/BD812/RTFWireFraudIPEProcessing>
```

3. On successful execution, the `RTFWIRE.ear` and `RTFWIRE.war` files are generated under the `<<FIC_HOME>/RTFWireFraudIPEProcessing/` folder.

2.2.1.3 Configuring the JMS properties

Before deploying the `RTFWIRE.ear` or `RTFWIRE.war` file, perform the following steps.

1. Replace the place holder `##WEB_IP##` and `##WEB_PORT##`.

For Webshpere:

- a. The `##WEB_IP##` and `##WEB_PORT##` values will be bootstrap IP address and port. Refer to Appendix: B in [OFS Inline Processing Engine Configuration Guide](#).
- b. Replace the `##JMS_PORT##` with bootstrap port in `WireTransactionsPost.jsp` in the below path.

Path: `$FIC_HOME/RTFWireFraudIPEProcessing/WebContent`

2. Recreate and deploy the BD war.

2.2.1.4 Deploying RTFWIRE.ear

NOTE For more information on IPE configurations, such as JMS connection factory and JMS queue, see [OFS Inline Processing Engine Configuration Guide](#).

The following sections detail the deployment of `RTFWIRE.ear`.

- [Deploying RTFWIRE.ear in WebLogic](#)
- [Installing RTFWIRE.ear in WebLogic using WebLogic Administrator Console](#)
- [Deploying RTFWIRE.ear in WebSphere](#)

NOTE `RTFWIRE.ear` deployment on Tomcat is not supported.

NOTE Make sure that `ipe.produce.hglights.results` is **false** in the `<deployed area>/RTFWIRE.ear/RTFWIRE.war/conf/install.properties` path. You must update it to **false** if it is shown as **true**.

2.2.1.4.1 Deploying RTFWIRE.ear in WebLogic

This section defines how to deploy `RTFWIRE.ear` in WebLogic.

NOTE It is mandatory to have `RTFWIRE.ear` in the same domain where `<contextname>.ear` of the OFS BD Application is deployed.

To deploy `RTFWIRE.ear` in WebLogic, follow these steps:

1. Start the WebLogic server.
2. Create an `.ear` folder in `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications`.

3. Copy `<FIC_HOME>/RTFWireFraudIPEProcessing/RTFWIRE.ear` to `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFWIRE.ear/`.
4. Explode the `RTFWIRE.ear` file by executing the command:

```
jar -xvf RTFWIRE.ear
```
5. Delete the `RTFWIRE.ear` and `RTFWIRE.war` files.
6. Create an `RTFWIRE.war` folder in `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFWIRE.ear`.
7. Copy `<FIC_HOME>/RTFWireFraudIPEProcessing/RTFWIRE.war` to `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFWIRE.ear/RTFWIRE.war`.
8. Explode the `RTFWIRE.war` file by executing the command:

```
jar -xvf RTFWIRE.war
```
9. In the `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<Domain Name>config` path, update `config.xml` with the below entry under `<security-configuration>`:

```
<enforce-valid-basic-auth-credentials>>false</enforce-valid-basic-auth-credentials>
```

2.2.1.4.2 Installing RTFWIRE.ear in WebLogic using WebLogic Administrator Console

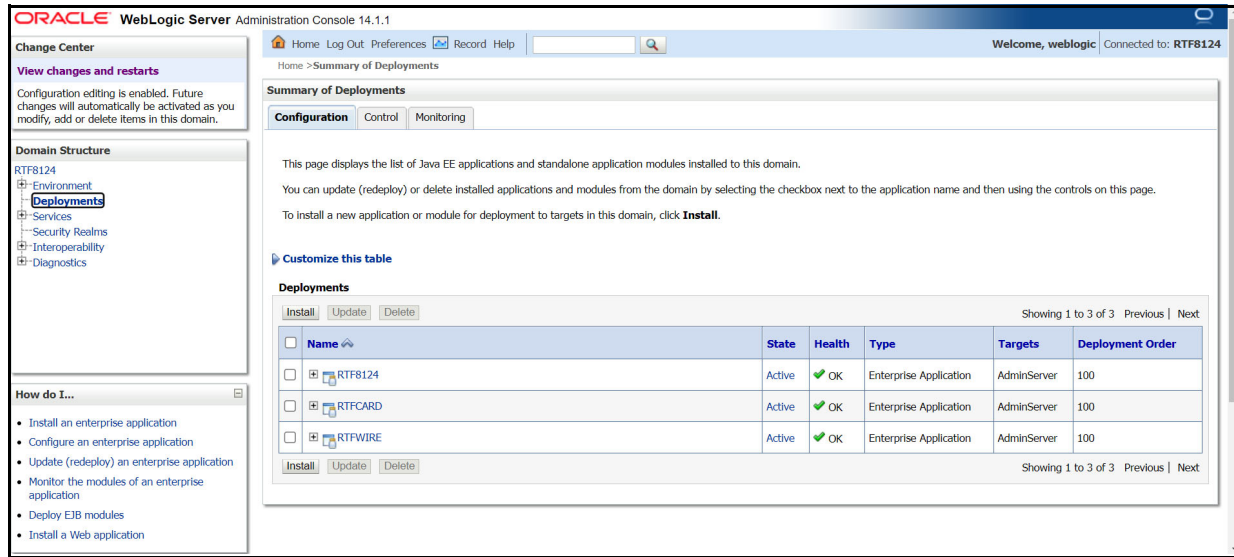
This section defines how to deploy `RTFWIRE.ear` in WebLogic using WebLogic administrator console.

To deploy `RTFWIRE.ear` in WebLogic, follow these steps:

1. Navigate to the path `<WebLogic Installation directory>/user_projects/domains/<domain name>/bin` in the machine in which WebLogic is installed.
2. Start WebLogic by executing the following command:

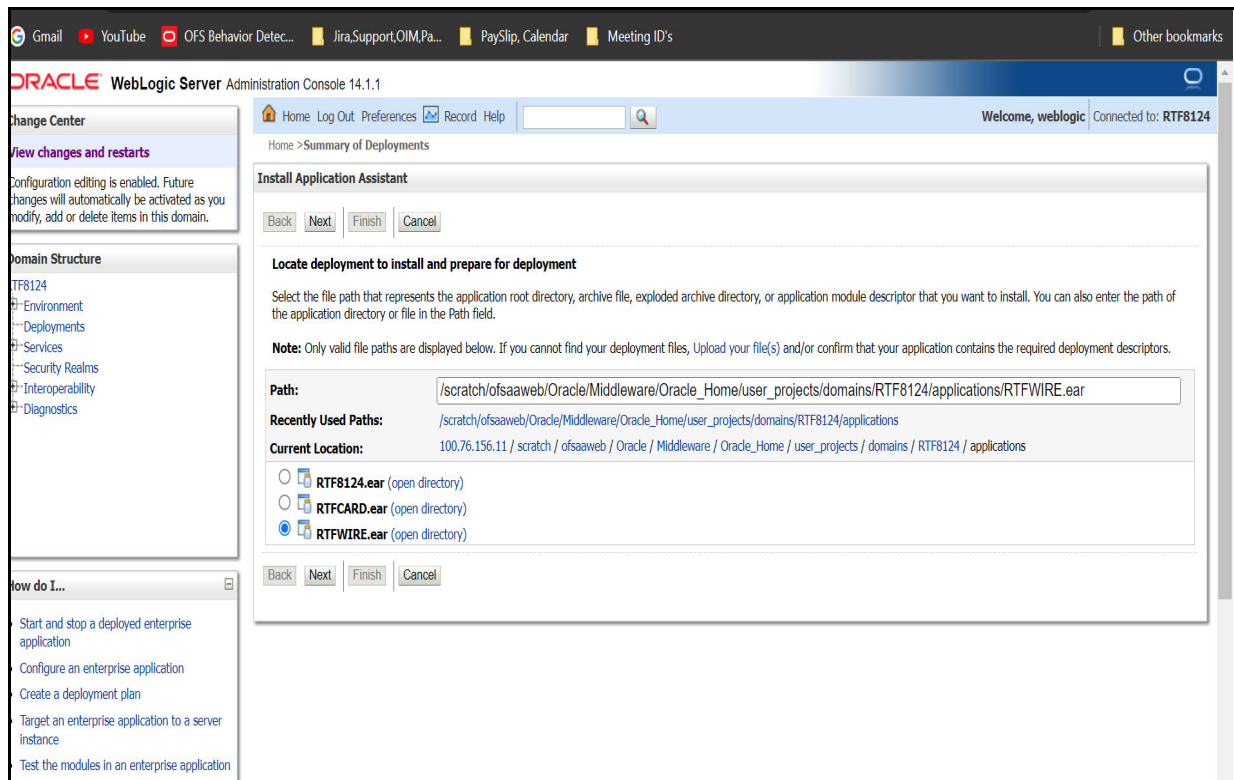
```
./startWebLogic.sh -d64 file
```
3. Open the following URL in the browser window:
`http://<ipaddress>:<admin server port>/console` (use https protocol if SSL is enabled). The Sign-in window of the WebLogic Server Administration Console is displayed.
4. Login with the Administrator **Username** and **Password**. The Summary of Deployment page is displayed.

Figure 2: Summary of Deployment



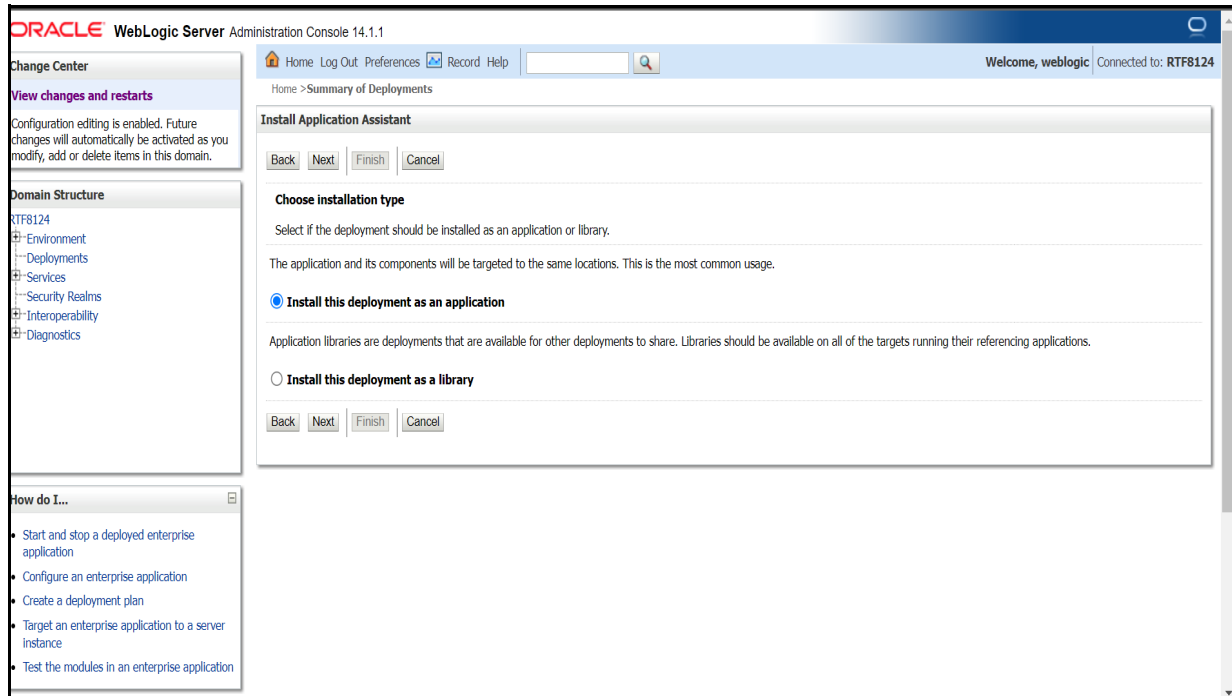
5. Click **Install**. The Install Application Assistance page is displayed.

Figure 3: Install Application Assistance Window



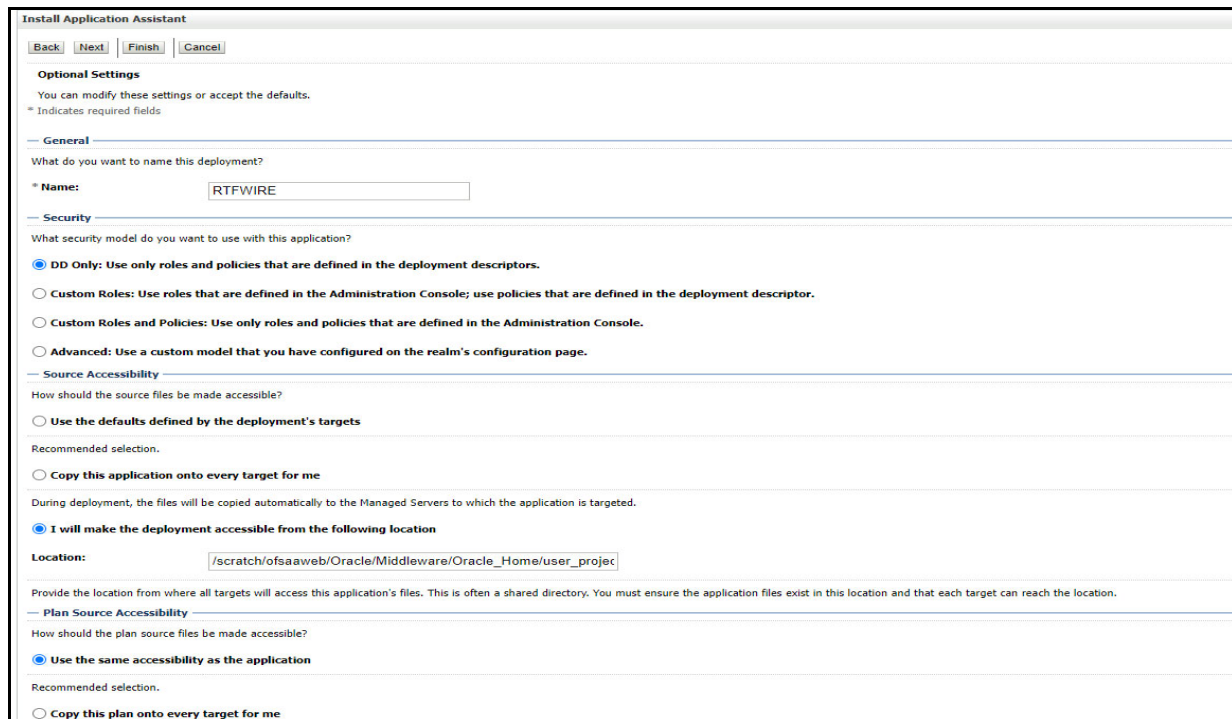
6. Select **RTFWIRE.ear** and click **Next**. This action displays the Install Application Assistance page with the Choose targeting style section.

Figure 4: Install Application Assistance with choose Target Style



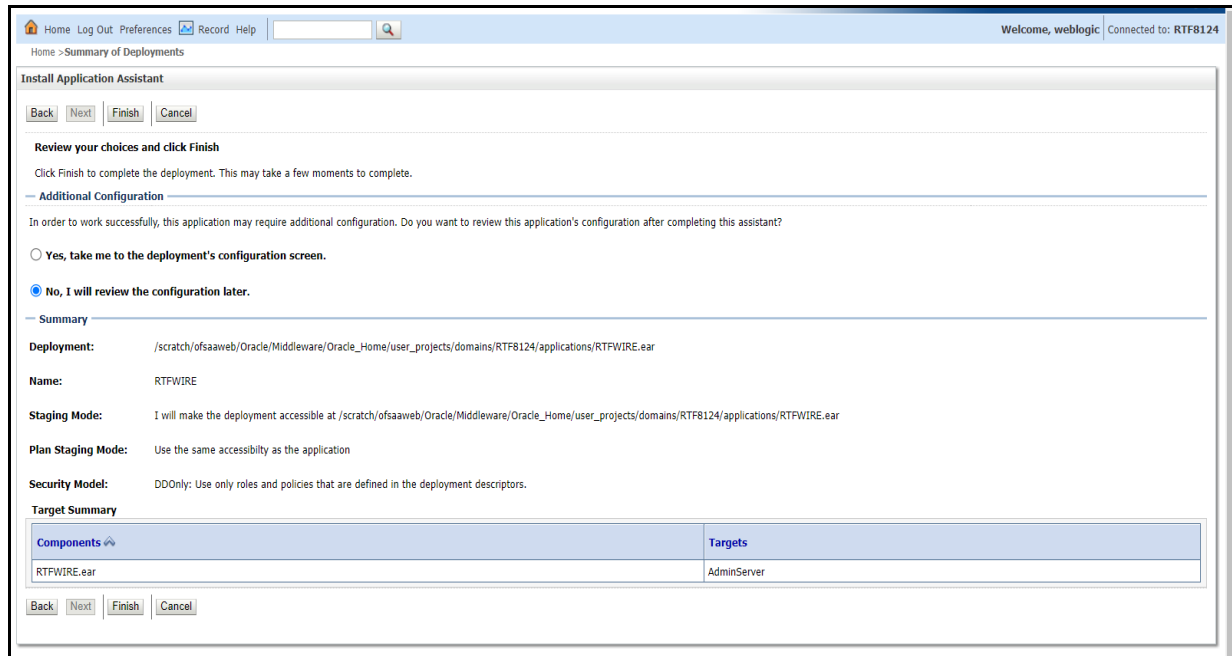
- By default, the **Install this deployment as an application** option in the Choose targeting style section is selected. Click **Next**. This action displays the Install Application Assistance page in the Optional Settings section.

Figure 5: Install the Application Assistance page with Optional Settings



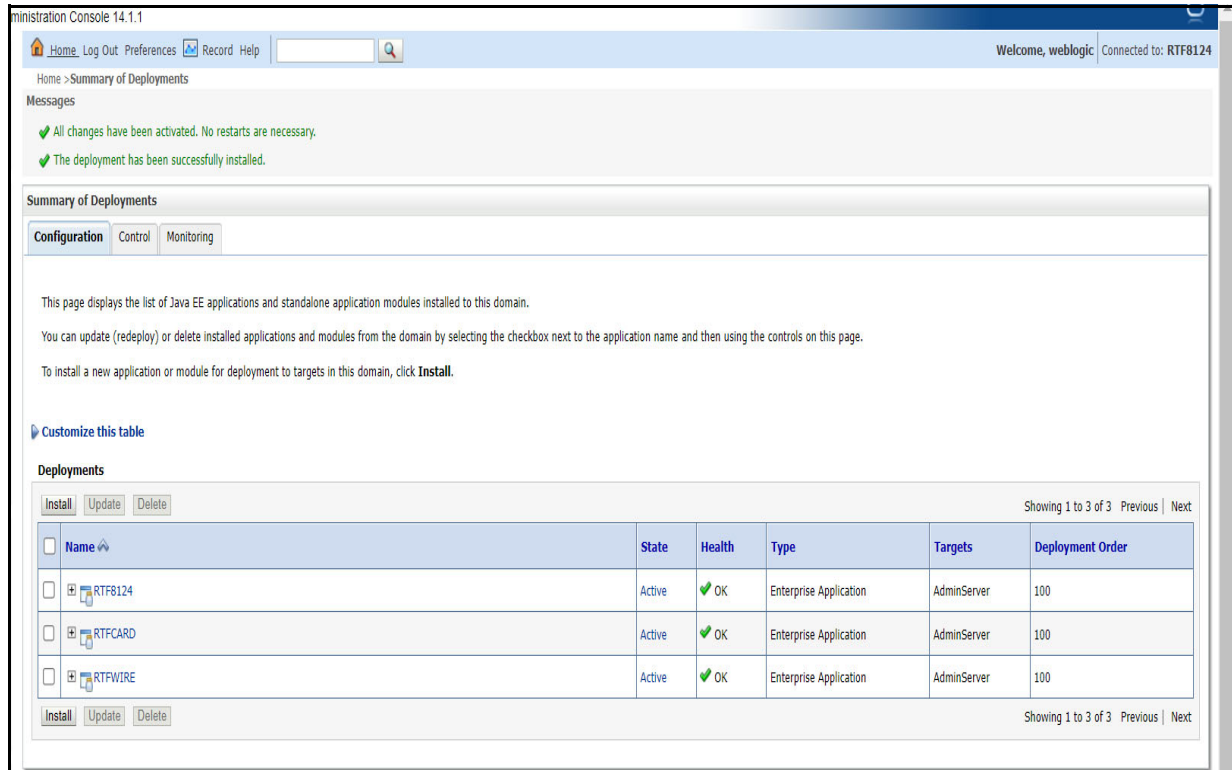
8. Retain the default selections and click **Next**. The Install Application Assistance page is displayed with the Review your choices and click Finish section.

Figure 6: Install the Application Assistance page with Review your choices and click Finish section



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

Figure 7: Summary of Deployment page with RTFWIRE



10. Restart all OFS Analytical Applications Infrastructure (AAI) servers.

2.2.1.4.3 Deploying RTFWIRE.ear in WebSphere

This section defines how to deploy `RTFWIRE.ear` in WebSphere.

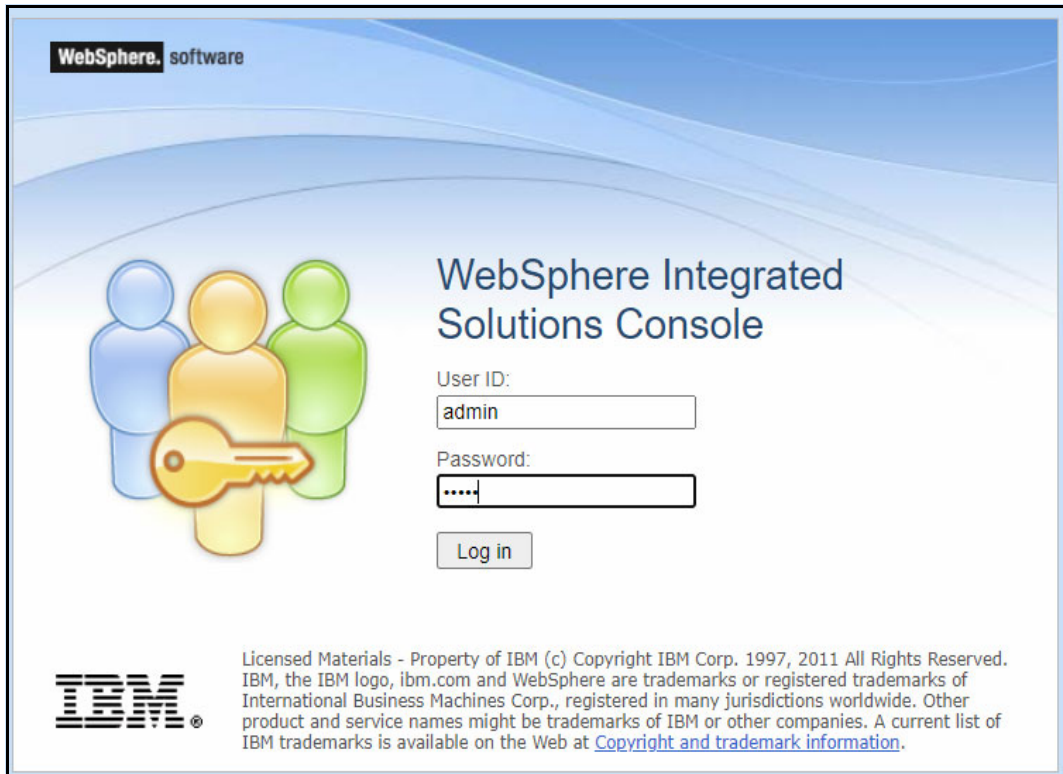
NOTE It is mandatory to have `RTFWIRE.ear` in the same domain where `<contextname>.ear` of the OFS BD Application is deployed.

To deploy `RTFWIRE.ear` in WebSphere, follow these steps:

1. Start the WebSphere Profile by navigating to the path "`<WebSphere_Installation_Directory>/IBM/WebSphere/AppServer/profiles/<Profile_Name>/bin/`" then execute the command:

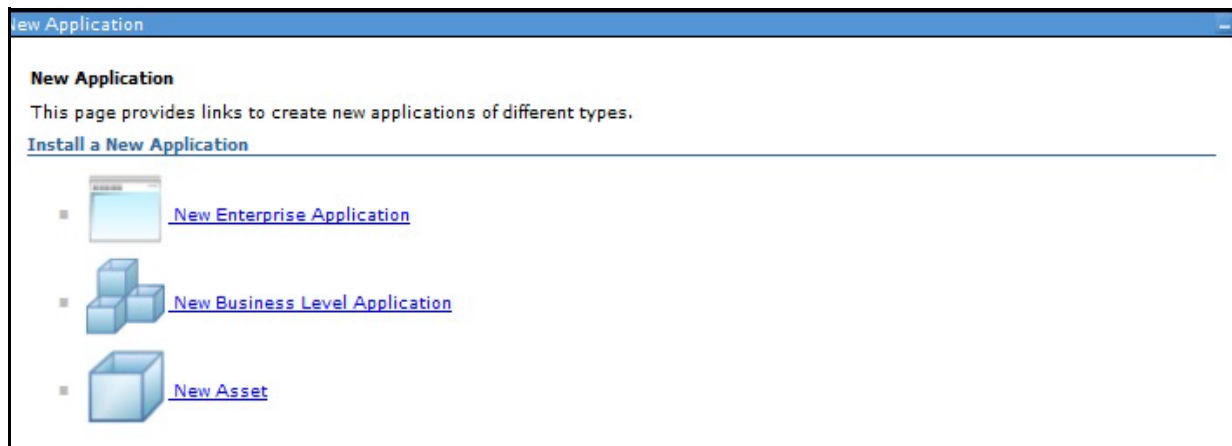
```
./startServer.sh server1
```
2. Create an `RTFWIRE.ear` folder in `<WEBSHERE_INSTALL_DIR>/RTFWIRE.ear`.
3. Copy `<FIC_HOME>/RTFWireFraudIPEProcessing/RTFWIRE.ear` to `<WEBSHERE_INSTALL_DIR>/RTFWIRE.ear`.
4. Open the following URL in the browser: `http://<ipaddress>:<Administrative Console Port>/ibm/console`. (use https protocol if SSL is enabled). The login screen is displayed.

Figure 8: WebSphere Login Window



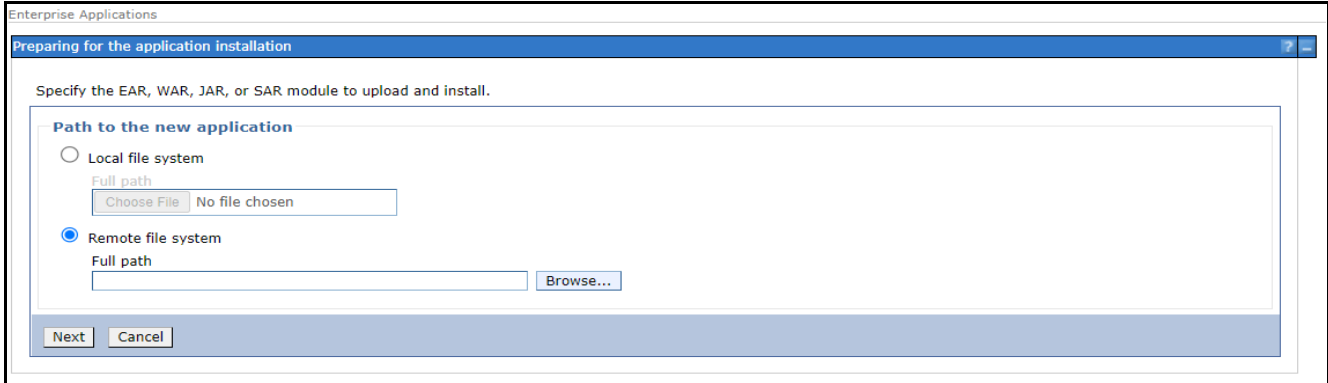
5. Enter the user credentials that have administrator rights and click **Log In**.
6. From the LHS menu, select **Applications** and click **New Application**. The New Application window is displayed.

Figure 9: New Application



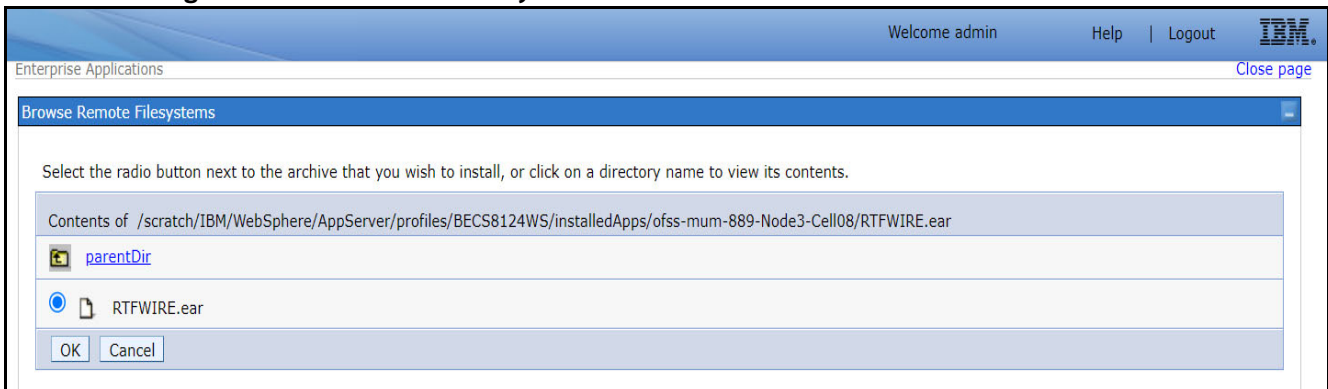
7. Click **New Enterprise Application**. The **Preparing for the application installation** window is displayed.

Figure 10: Preparing for the Application Installation Window



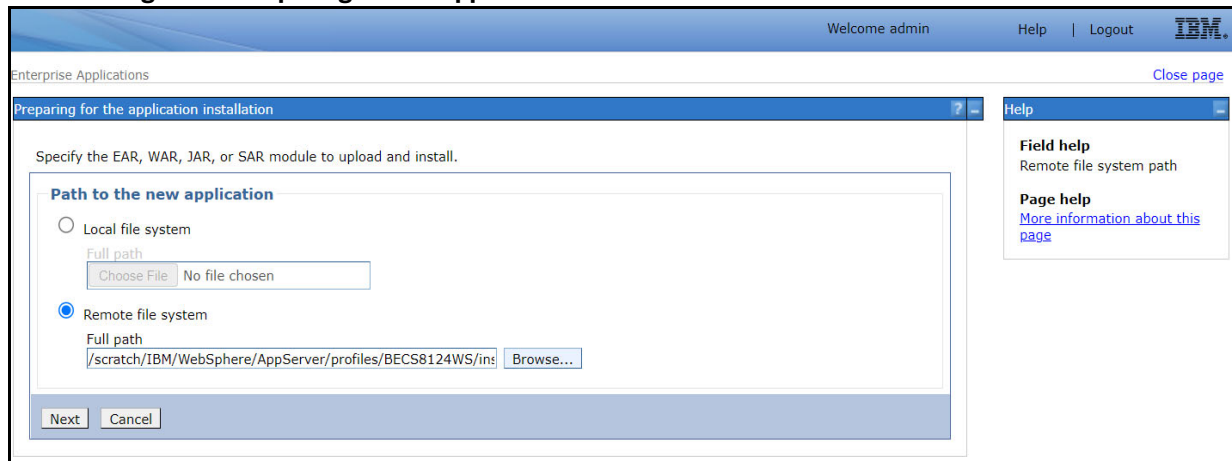
8. Select **Remote File System** and click **Browse**.

Figure 11: Browse Remote Filesystems Window



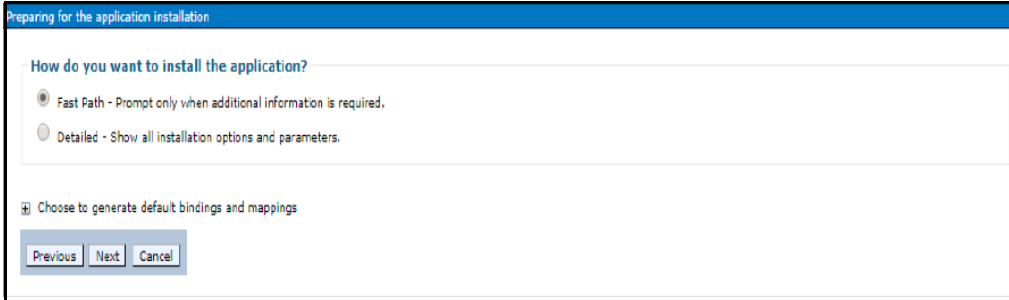
9. Navigate through folders and select the EAR file generated for RTFWIRE to upload and install. Click **OK**.

Figure 12: Preparing for the application installation



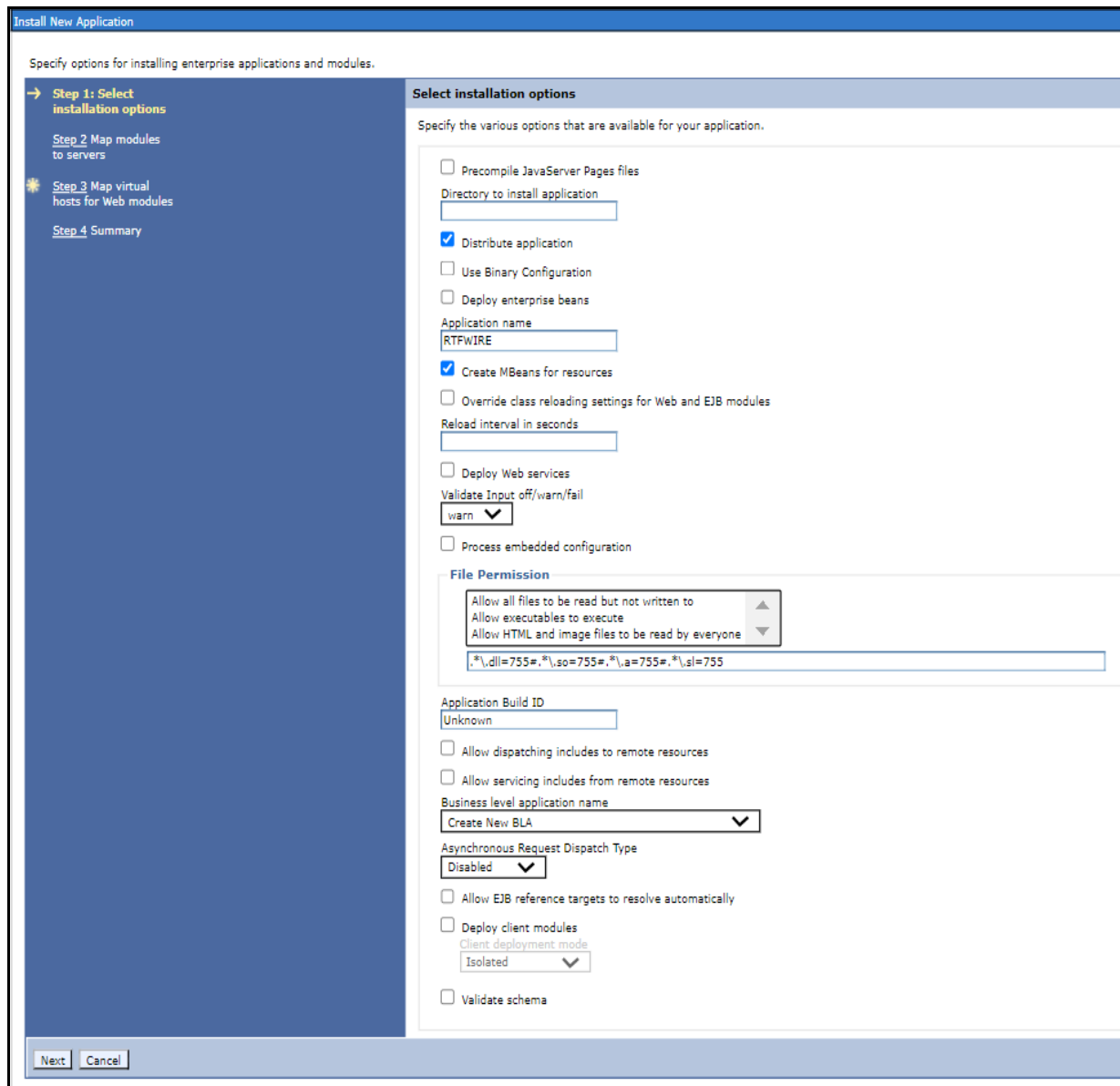
10. Click **Next**.

Figure 13: Installation Options



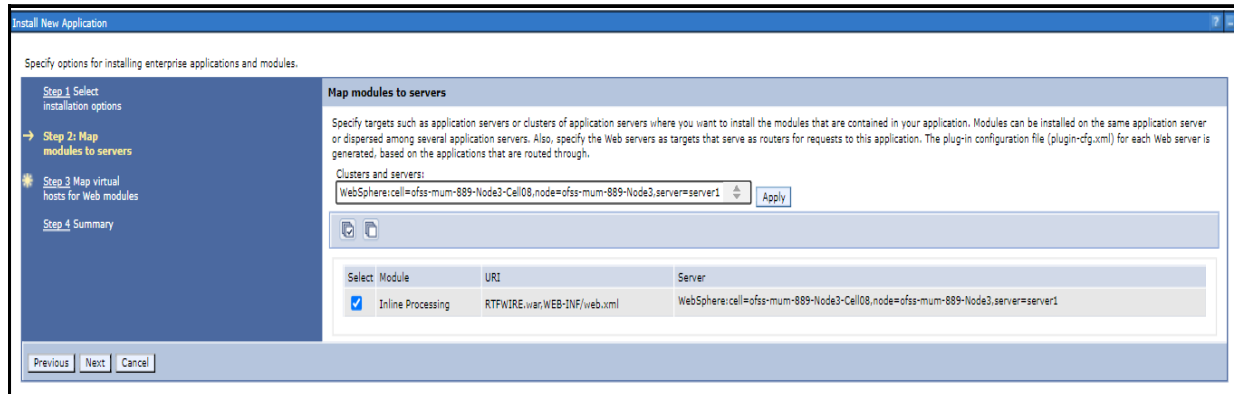
11. Select the **Fast Path** option and click **Next**. The Install New Application window is displayed.

Figure 14: Install New Application



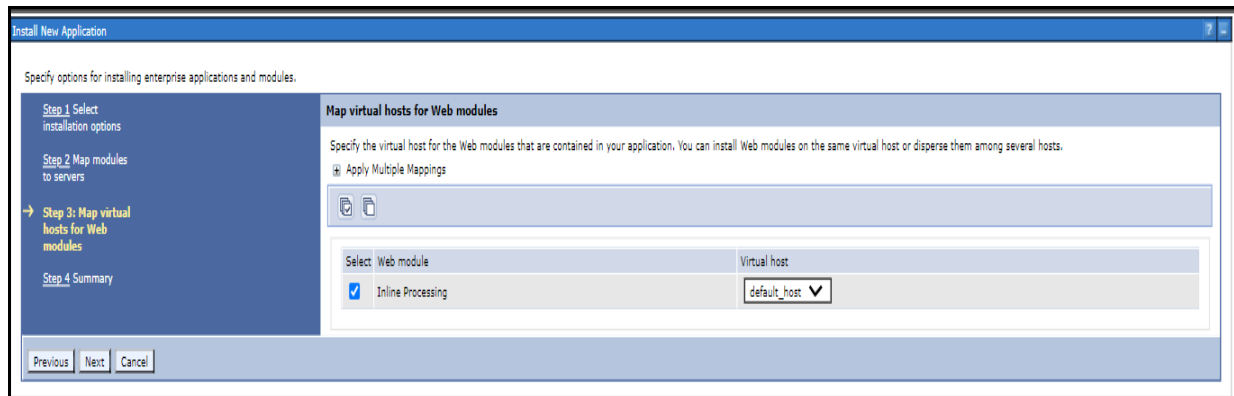
12. Enter the required information and click **Next**. The Map Modules to Servers window is displayed.

Figure 15: Map Modules to Servers



13. Select the **Inline Processing** check box and click Next. The Map Virtual hosts for the Web modules page are displayed.

Figure 16: Map Virtual hosts for Web modules page



14. Select the **Inline Processing** check box and click **Next**. The Metadata for the modules page is displayed.
15. Select the **Metadata-complete** attribute check box and click **Next**. The Summary page is displayed.

Figure 17: Summary page

Install New Application

Specify options for installing enterprise applications and modules.

Step 1 Select installation options
Step 2 Map modules to servers
Step 3 Map virtual hosts for Web modules
→ Step 4: Summary

Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	RTFWIRE
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*,dl=755#,*\,so=755#,*\,a=755#,*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Deploy client modules	No
Client deployment mode	Isolated
Validate schema	No
Cell/Node/Server	Click here

Previous Finish Cancel

16. Click **Finish**. On successful installation, the system displays a success message.

Figure 18: Installation Success

```
"
Installing...
If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.
Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.
ADMA5016I: Installation of RTFWIRE started.
ADMA5067I: Resource validation for application RTFWIRE completed successfully.
ADMA5058I: Application and module versions are validated with versions of deployment targets.
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
ADMA5081I: The bootstrap address for client module is configured in the WebSphere Application Server repository.
ADMA5053I: The library references for the installed optional package are created.
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
ADMA5001I: The application binaries are saved in /scratch/IBM/WebSphere/AppServer/profiles/BECS8124WS/wstemp/92668751/workspace/cells/ofss-mum-889-Node3-Cell08/ap
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
SECJ0400I: Successfully updated the application RTFWIRE with the appContextIDForSecurity information.
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
ADMA5005I: The application RTFWIRE is configured in the WebSphere Application Server repository.
ADMA5113I: Activation plan created successfully.
ADMA5011I: The cleanup of the temp directory for application RTFWIRE is complete.
ADMA5013I: Application RTFWIRE installed successfully.

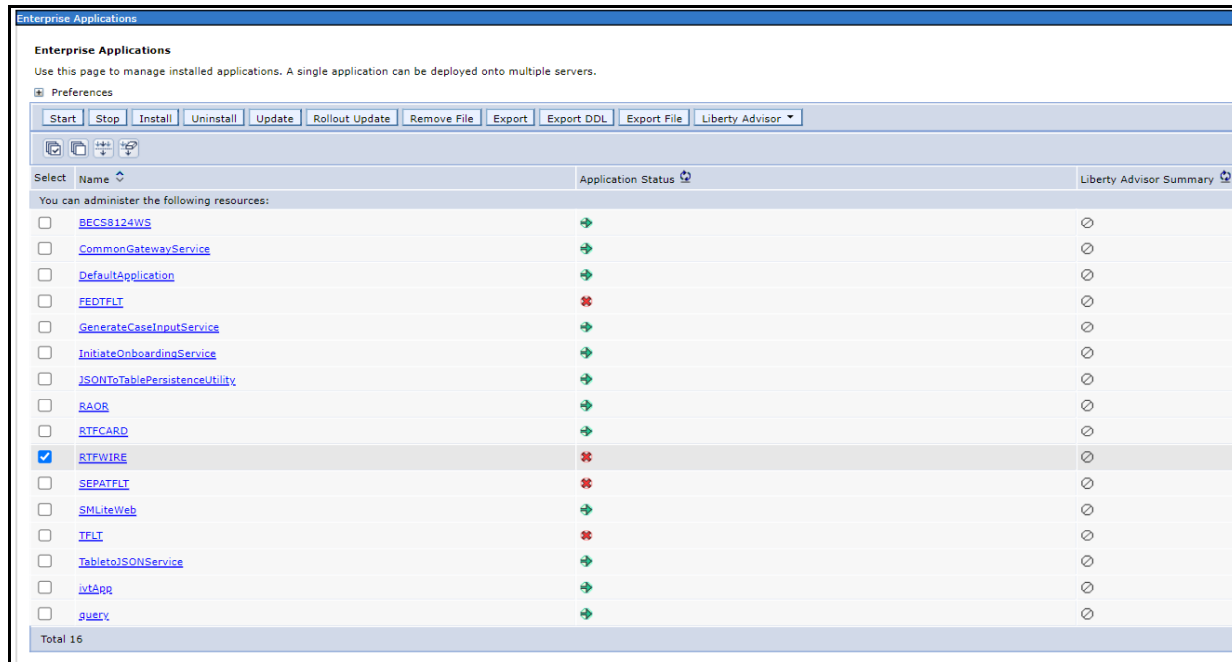
Application RTFWIRE installed successfully.

To start the application, first save changes to the master configuration.
Changes have been made to your local configuration. You can:
  ■ Save directly to the master configuration.
  ■ Review changes before saving or discarding.

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

17. Click **Save** and save the master file configuration. This action displays the details in the *Master File Configuration* page.

Figure 19: Master File Configuration page



NOTE

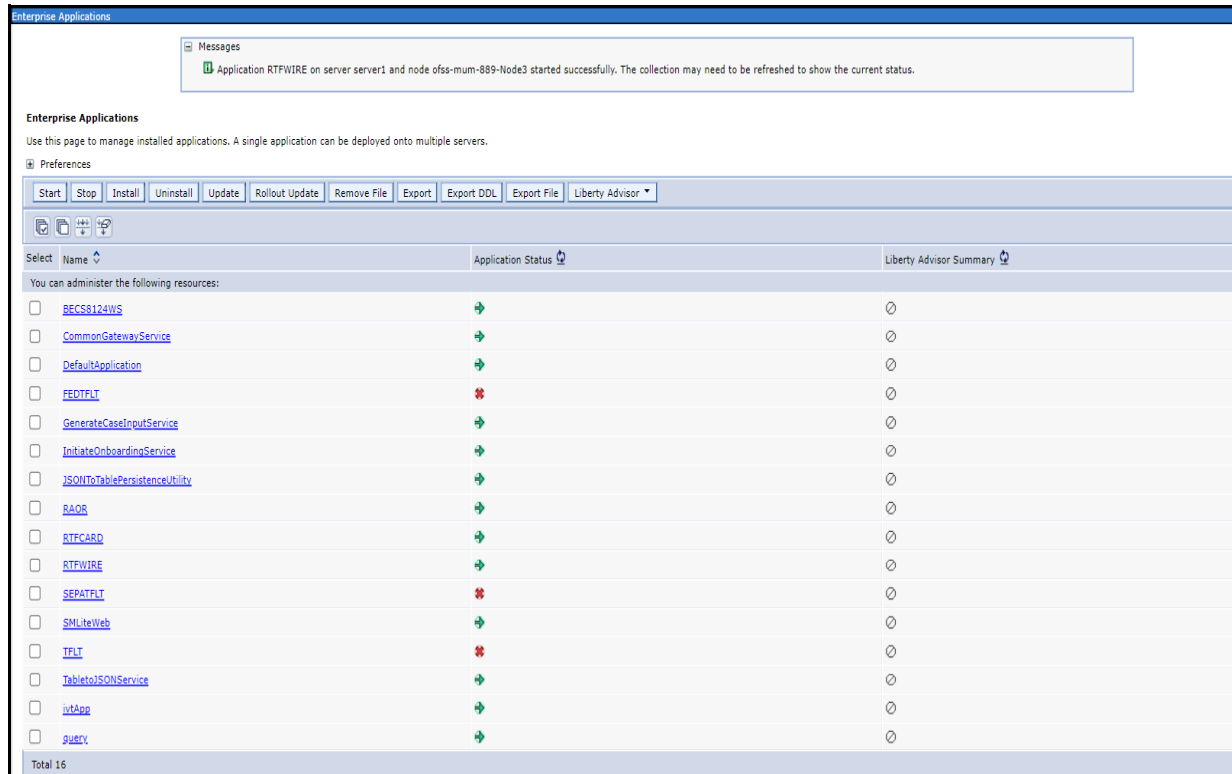
Make sure you take a backup of the Jersey Jar file to any folder and remove it by running the following command in the mentioned path.

Path: <Deployed Area>/<RTFWIRE.ear>/
<RTFWIRE.war>/WEB-INF/LIB

Command: Delete jersey-bundler (jersey-bundle-1.6.jar) jar

18. Select RTFWIRE and click **Start**. This action displays the Enterprise Application page with a confirmation message.

Figure 20: Enterprise Application page with Confirmation message



19. Update the key `realtime: name=StatsManager` to `realtime: name=StatsManagerWIRE` in the following file.

Path: `<Deployed Area>/<RTFWIRE.ear>/ <RTFWIRE.war>/conf/applicationContext-jmx.xml`

20. Restart all OFS AAI servers.

2.2.1.5 Commands to Execute to Import IPE Configs

Execute the below command in the specified path to import IPE configs.

Path: `<FIC_HOME>/ficapp/common/FICServer/bin/`

Command: `./RTIImport.sh`

```
$FIC_HOME/RTFWireFraudIPEProcessing/IPEAssessmentImport/
OFS_RTWIREFRAUD_RTExport_Fraud.xml <INFODOM> OFS_FRAUD_EE true
```

3 Installing OFS Card Fraud Enterprise Edition

This chapter details on installing the Oracle Financial Services (OFS) Card Fraud Enterprise Edition.

Topics:

- [Prerequisites](#)
- [Post-Installation Configuration](#)

3.1 Prerequisites

The prerequisites you must have before installing OFS Card Fraud Enterprise Edition are:

- OFS Behavior Detection (BD) Application Pack should be installed. For information on BD application pack installation, see [Financial Services Behavior Detection \(OFS BD\) Application Pack Installation Guides](#).

3.2 Post-Installation Configuration

On successful installation of the Oracle Financial Services BD Application Pack, you must perform the following configuration for OFS Card Fraud Enterprise Edition application.

- [Configuring IPE for Real Time Card Fraud](#)

3.2.1 Configuring IPE for Real Time Card Fraud

You must install the RTFCARD service to configure IPE for Real Time Fraud.

The following sections show how to install the RTFCARD service.

- [Create the Source Entity Queue for RTF Card](#)
- [Creating RTFCARD.ear or RTFCARD.war](#)
- [Configuring the JMS properties](#)
- [Deploying RTFCARD.ear](#)
- [Commands to Execute to Import IPE Configs](#)
- [Enabling Feedback Message](#)

3.2.1.1 Create the Source Entity Queue for RTF Card

Create the source entity queue for RTF Card considering the following sample.

- **Queue Name:** RTI Source Entity Queue
- **JNDI Name:** jms/sourceEntityCardQueue
- **Sub deployment:** Select the Sub deployment as RTISubDeploy.

Table 5 shows a sample of JMS Queue configuration.

Table 5: Sample JMS Queue configuration

Name	Type	JNDI Name	Sub Deployment	Targets
Cache Operation Message Destination Topic	Topic	jms/cacheOperationMessageDestination	RTISubdeploy	RTIServer
JMS Connection Factory	Connection Factory	jms/connectionFactory	Default Targeting	AdminServer
RTFCARD Assessment Response Destination Topic	Topic	jms/RTFCardAssessmentResponseDestination	RTISubdeploy	RTIServer
RTFCARD Feedback Queue	Queue	jms/RTFCardFeedbackQueue	RTISubdeploy	RTIServer
RTFCARD Hold JMS Queue	Queue	jms/RTFCardTransactionActionQueue	RTISubdeploy	RTIServer
RTFCARD Source Entity Queue	Queue	jms/RTFCardSourceEntityQueue	RTISubdeploy	RTIServer
Wire Transaction Source Entity Queue	Queue	jms/wireTrxnQueue	RTISubdeploy	RTIServer

3.2.1.2 Creating RTFCARD.ear or RTFCARD.war

It is mandatory to have the RTFCARD.ear in the same profile or domain where the <contextname>.ear file of the OFS BD Application is deployed. To create **RTFCARD.ear** or **RTFCARD.war**, follow these steps:

1. Navigate to <FIC_HOME>/RTFCardFraudIPEProcessing
2. Execute the following command:
`./ant.sh.`
3. On successful execution, the RTFCARD.ear and RTFCARD.war files are generated under the <<FIC_HOME>/RTFCardFraudIPEProcessing/ folder.

3.2.1.3 Configuring the JMS properties

Before deploying the RTFCARD.ear or RTFCARD.war file, perform the following steps.

1. Update RTFPIPE_CONFIG.properties for card in the following path.
Path: \$FIC_HOME/fiweb/webroot/conf
2. Replace the place holder ##WEB_IP## and ##WEB_PORT##.

For Webshpere:

- a. The ##WEB_IP## and ##WEB_PORT## values will be bootstrap IP address and port. Refer to Appendix: B in [OFS Inline Processing Engine Configuration Guide](#).
- b. Replace the ##JMS_PORT## with bootstrap port in CardTransactionsPost.jsp in the below path.

Path: \$FIC_HOME/RTFCardFraudIPEProcessing/WebContent

3. Recreate and deploy the BD war.

3.2.1.4 Deploying RTFCARD.ear

NOTE For more information on IPE configurations, such as JMS connection factory and JMS queue, see [OFS Inline Processing Engine Configuration Guide](#).

The following sections detail the deployment of RTFCARD.ear.

- [Deploying RTFCARD.ear in WebLogic](#)
- [Installing RTFCARD.ear in WebLogic using WebLogic Administrator Console](#)
- [Deploying RTFCARD.ear in WebSphere](#)

NOTE RTFCARD.ear deployment on Tomcat is not supported.

NOTE Make sure that `ipe.produce.hglights.results` is **false** in the `<deployed area>/RTFCARD.ear/RTFCARD.war/conf/install.properties` path. You must update it to **false** if it is shown as **true**.

3.2.1.4.1 Deploying RTFCARD.ear in WebLogic

This section defines how to deploy RTFCARD.ear in WebLogic.

NOTE It is mandatory to have `RTFCARD.ear` in the same domain where `<contextname>.ear` of the OFS BD Application is deployed.

To deploy `RTFCARD.ear` in WebLogic, follow these steps:

1. Start the WebLogic server.
2. Create an `RTFCARD.ear` folder in `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications`.
3. Copy `<FIC_HOME>/RTFCardFraudIPEProcessing/RTFCARD.ear` to `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFCARD.ear/`.
4. Explode the `RTFCARD.ear` file by executing the command:

```
jar -xvf RTFCARD.ear
```
5. Delete the `RTFCARD.ear` and `RTFCARD.war` files.
6. Create an `RTFCARD.war` folder in `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFCARD.ear`.
7. Copy `<FIC_HOME>/RTFCardFraudIPEProcessing/RTFCARD.war` to `<WEBLOGIC_INSTALL_DIR>/user_projects/domains/<DOMAIN_NAME>/applications/RTFCARD.ear/RTFCARD.war`.
8. Explode the `RTFCARD.war` file by executing the command:

```
jar -xvf RTFCARD.war
```

- In the <WEBLOGIC_INSTALL_DIR>/user_projects/domains/<Domain Name>config path, update config.xml with the below entry under <security-configuration>:

```
<enforce-valid-basic-auth-credentials>>false</enforce-valid-basic-auth-credentials>
```

3.2.1.4.2 Installing RTFCARD.ear in WebLogic using WebLogic Administrator Console

This section defines how to deploy RTFCARD.ear in WebLogic using Weblogic administrator console.

To deploy RTFCARD.ear in WebLogic, follow these steps:

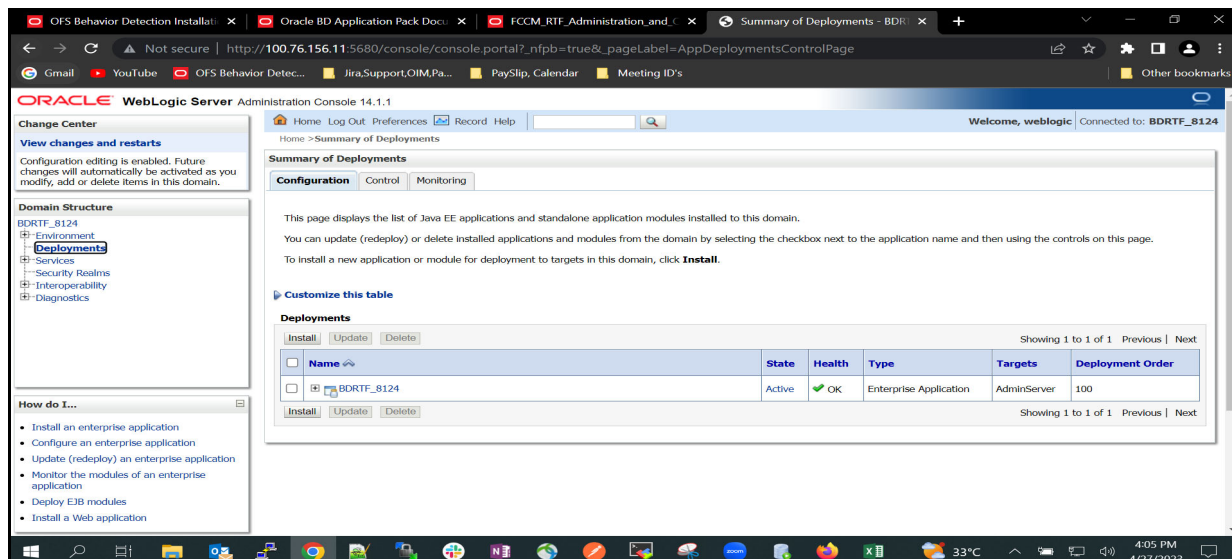
- Navigate to the path <WebLogic Installation directory>/user_projects/domains/<domain name>/bin in the machine in which WebLogic is installed.
- Start WebLogic by executing the following command:

```
./startWebLogic.sh -d64 file
```
- Open the following URL in the browser window:

```
http://<ipaddress>:<admin server port>/console
```

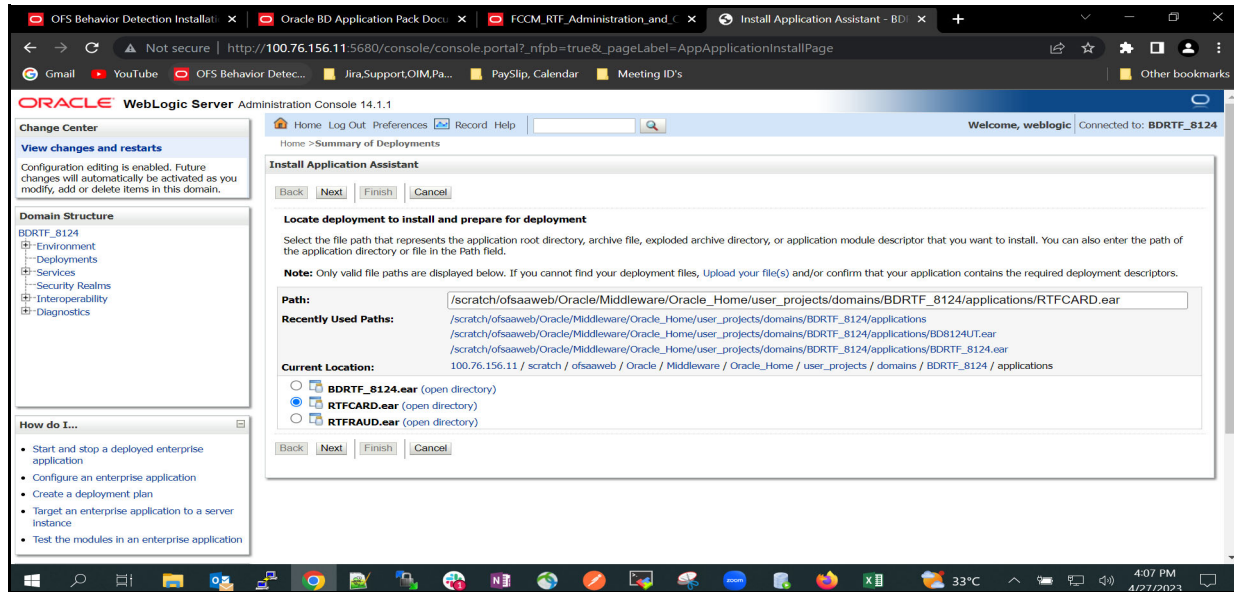
 (use https protocol if SSL is enabled). The Sign in window of the WebLogic Server Administration Console is displayed.
- Login with the Administrator **Username** and **Password**. The Summary of Deployment page is displayed.

Figure 21: Summary of Deployment



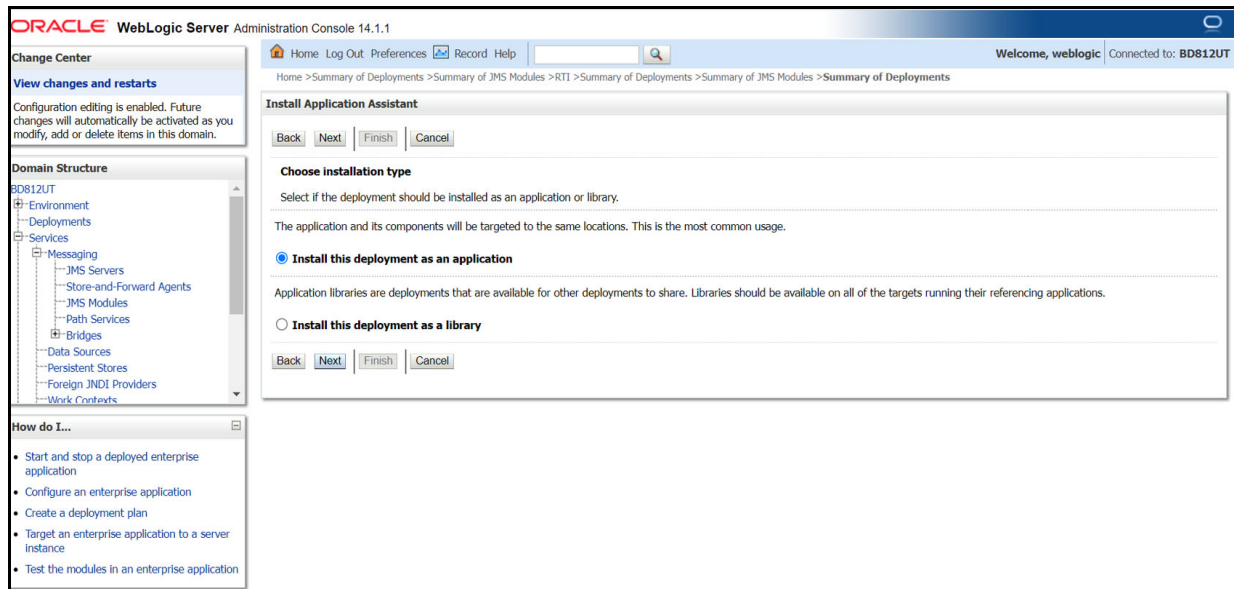
- Click **Install**. The Install Application Assistance page is displayed.

Figure 22: Install Application Assistance Window



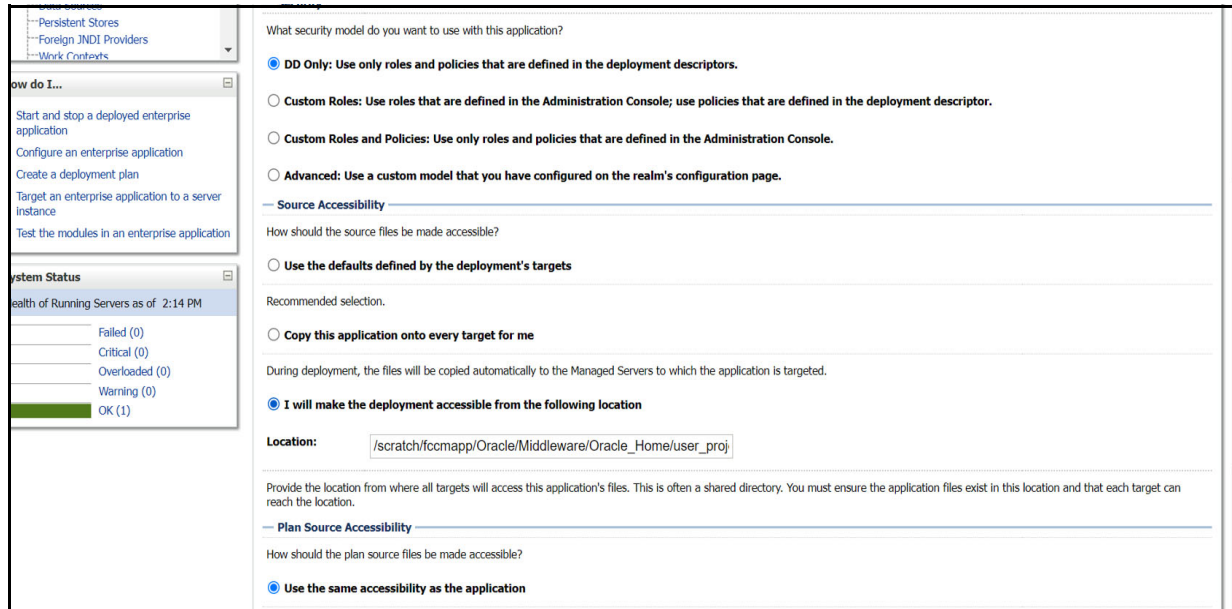
6. Select **RTFCARD.ear** and click **Next**. This action displays the Install Application Assistance page with the Choose targeting style section.

Figure 23: Install Application Assistance with choose Target Style



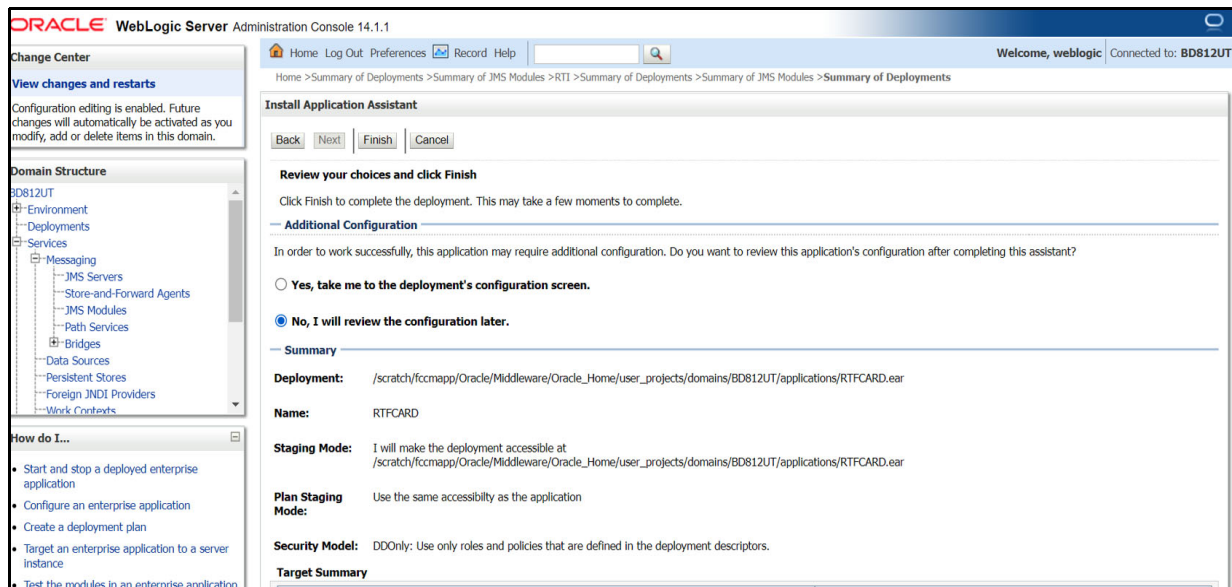
7. By default, the **Install this deployment as an application** option in the Choose targeting style section is selected. Click **Next**. This action displays the Install Application Assistance page in the Optional Settings section.

Figure 24: Install the Application Assistance page with Optional Settings



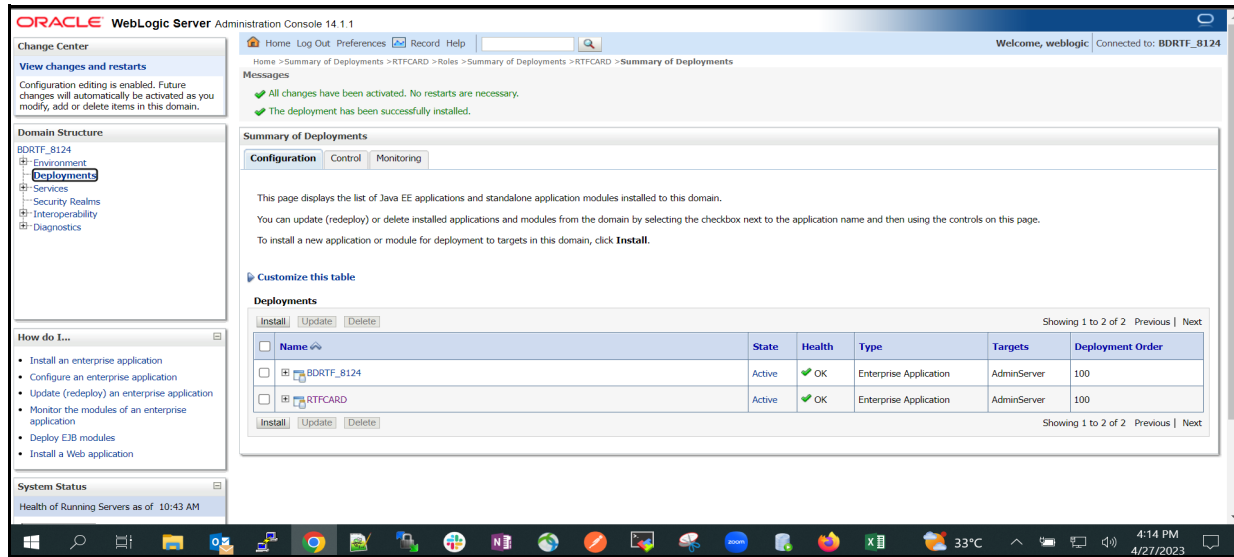
8. Retain the default selections and click **Next**. The Install Application Assistance page is displayed with the Review your choices and click Finish section.

Figure 25: Install the Application Assistance page with Review your choices and click Finish section



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

Figure 26: Summary of Deployment page with RTFCARD



10. Restart all OFS Analytical Applications Infrastructure (AAI) servers.

3.2.1.4.3 Deploying RTFCARD.ear in WebSphere

This section defines how to deploy RTFCARD.ear in WebSphere.

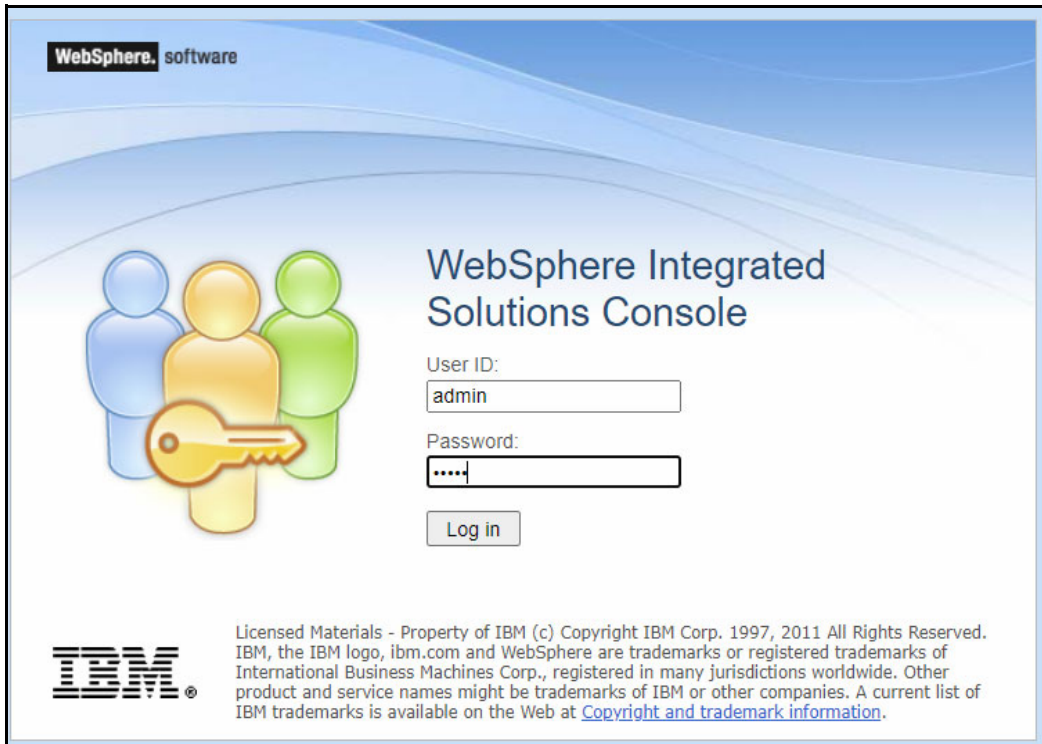
NOTE

It is mandatory to have RTFCARD.ear in the same domain where <contextname>.ear of the OFS BD Application is deployed.

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

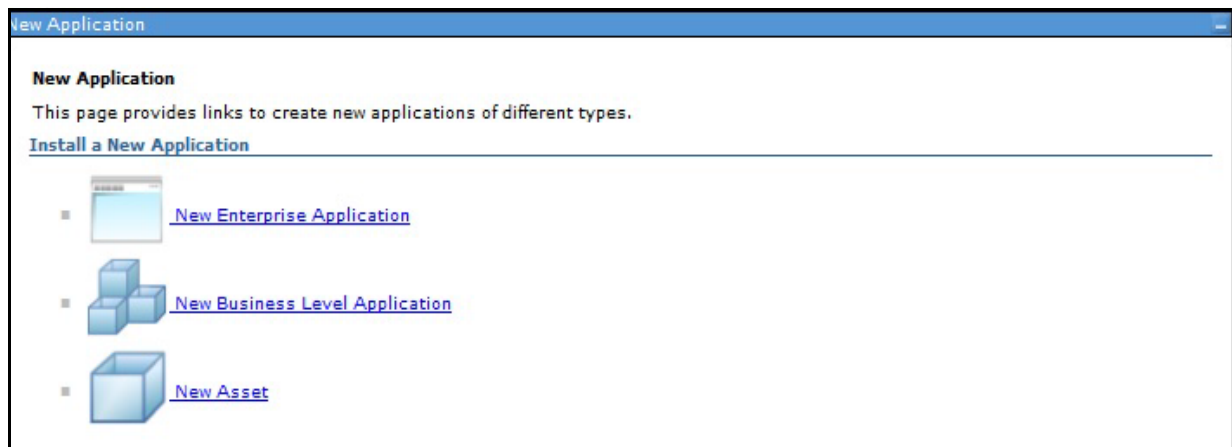
1. Start the WebSphere Profile by navigating to the path "`<WebSphere_Installation_Directory>/IBM/WebSphere/AppServer/profiles/<Profile_Name>/bin/`" then execute the command:
`./startServer.sh server1`
2. Create an RTFCARD.ear folder in `<WEBSPPHERE_INSTALL_DIR>/RTFCARD.ear`.
3. Copy `<FIC_HOME>/RTFCardFraudIPEProcessing/RTFCARD.ear` to `<WEBSPPHERE_INSTALL_DIR>/RTFCARD.ear`.
4. 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.

Figure 27: WebSphere Login Window



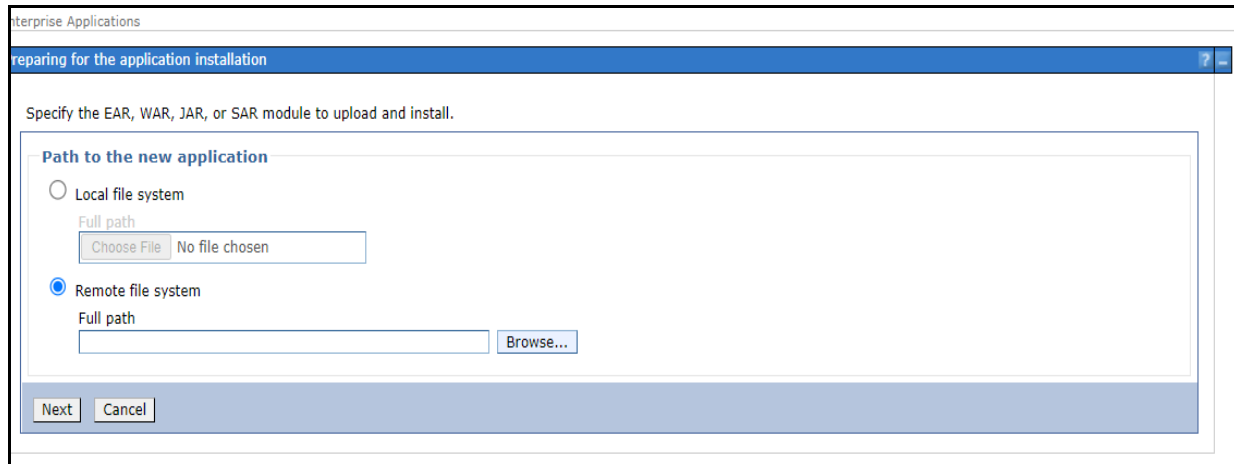
5. Enter the user credentials that have administrator rights and click **Log In**.
6. From the LHS menu, select **Applications** and click **New Application**. The New Application window is displayed.

Figure 28: New Application



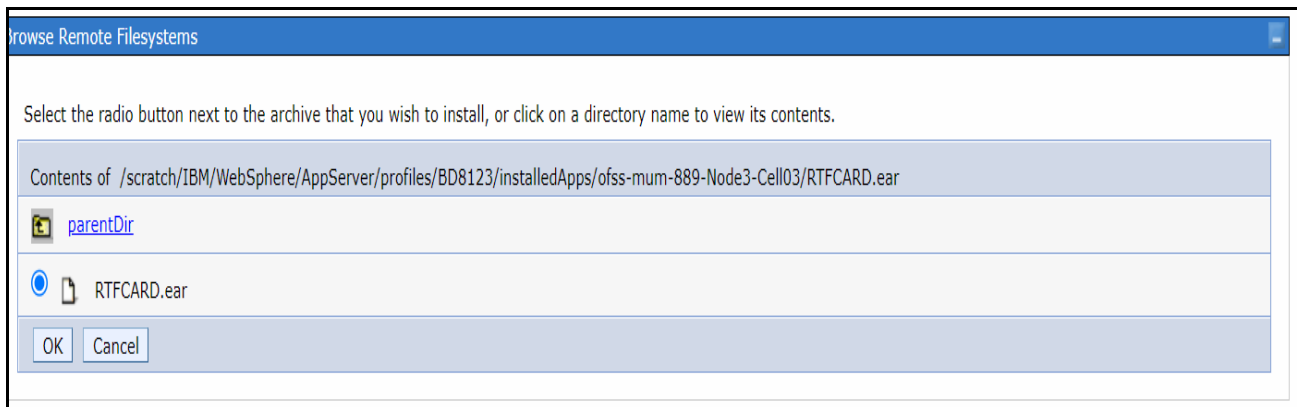
7. Click **New Enterprise Application**. The **Preparing for the application installation** window is displayed.

Figure 29: Preparing for the application installation



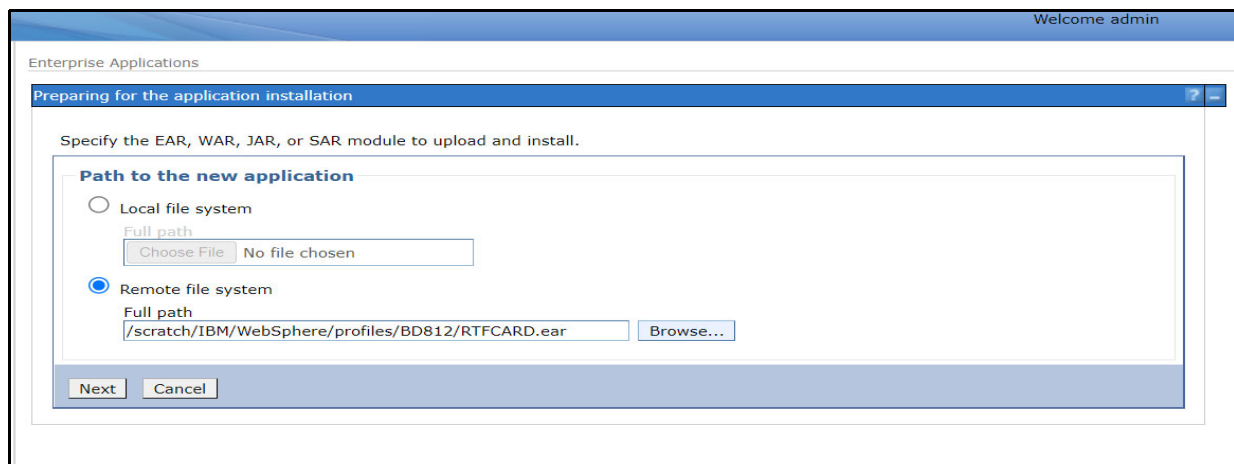
8. Select **Remote File System** and click **Browse**.

Figure 30: Browse Remote Filesystems Window



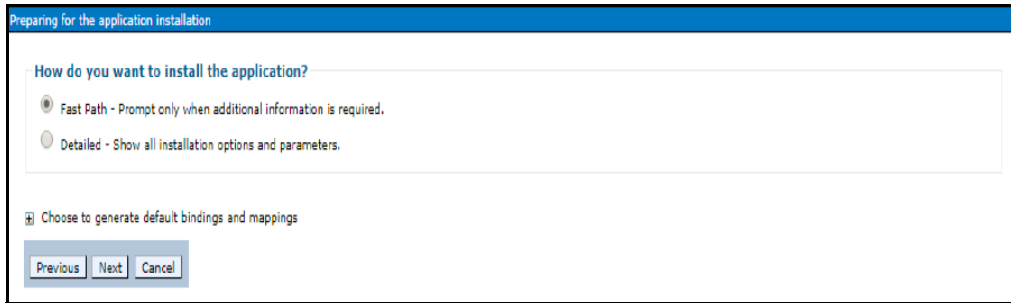
9. Navigate through folders and select the EAR file generated for RTFCARD to upload and install.

Figure 31: Preparing for the application installation



10. Click **Next**.

Figure 32: Installation Options

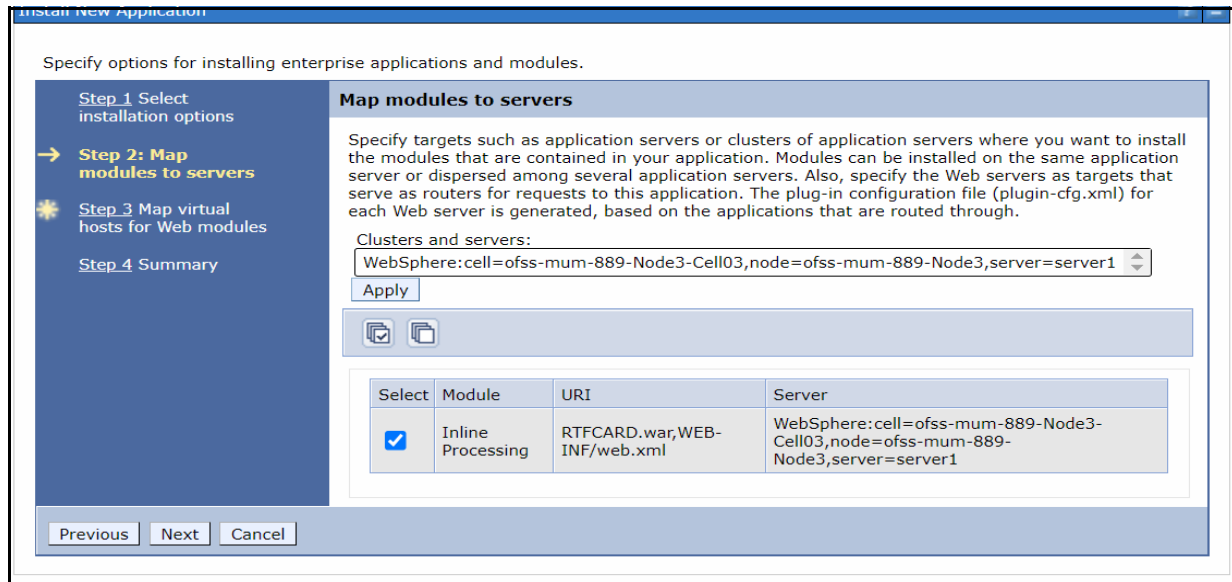


11. Select the **Fast Path** option and click **Next**. The Install New Application window is displayed.

Figure 33: Install New Application

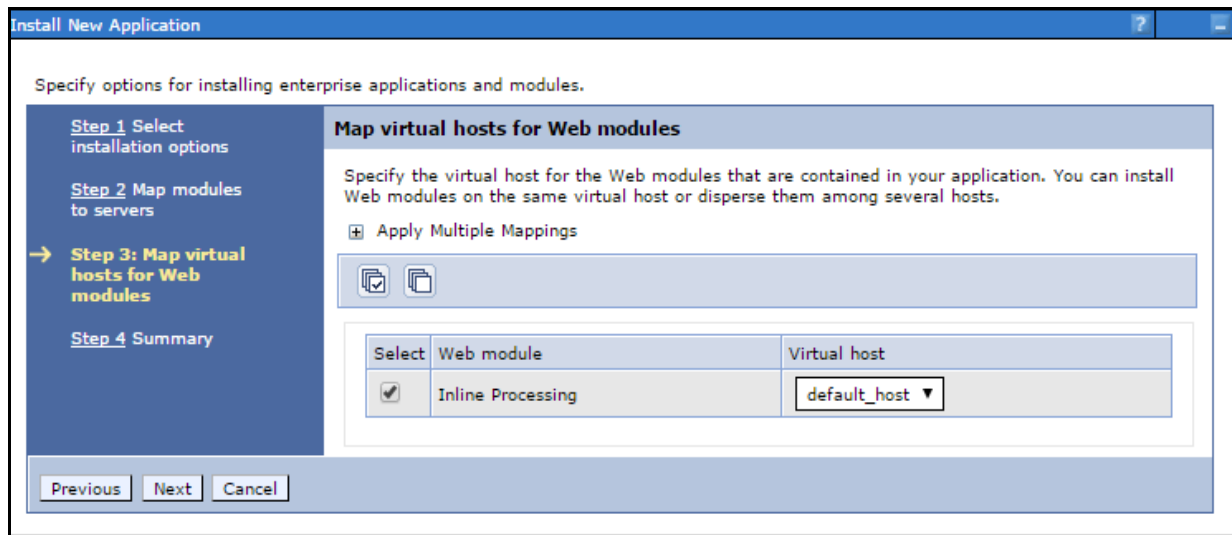
12. Enter the required information and click **Next**. The Map Modules to Servers window is displayed.

Figure 34: Map Modules to Servers



13. Select the **Inline Processing** check box and click Next. The Map Virtual hosts for the Web modules page are displayed.

Figure 35: Map Virtual hosts for Web modules page



14. Select the **Inline Processing** check box and click **Next**. The Metadata for the modules page is displayed.
15. Select the **Metadata-complete** attribute check box and click **Next**. The Summary page is displayed.

Figure 36: Summary page

Install New Application

Specify options for installing enterprise applications and modules.

[Step 1 Select installation options](#)
[Step 2 Map modules to servers](#)
[Step 3 Map virtual hosts for Web modules](#)
→ Step 4: Summary

Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	RTFCARD
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Deploy client modules	No
Client deployment mode	Isolated
Validate schema	No
Cell/Node/Server	Click here

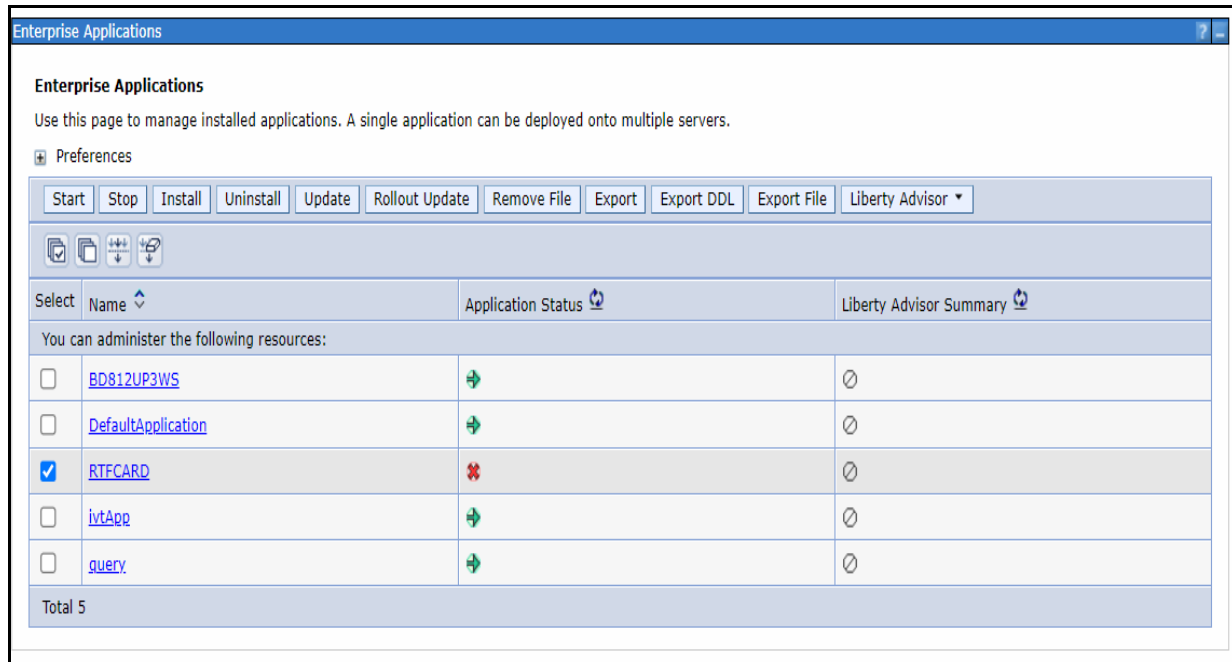
16. Click **Finish**. On successful installation, the system displays a message.

Figure 37: Installation Success

```
"
Installing...
If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.
Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.
ADMA50161: Installation of RTFCARD started.
ADMA50671: Resource validation for application RTFCARD completed successfully.
ADMA50581: Application and module versions are validated with versions of deployment targets.
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
ADMA50811: The bootstrap address for client module is configured in the WebSphere Application Server repository.
ADMA50531: The library references for the installed optional package are created.
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
ADMA50011: The application binaries are saved in /scratch/IBM/WebSphere/AppServer/profiles/BD8123/wstemp/92668751/workspace/cells/ofss-mum-889-Node3-Cell03/applications/RTFCARD.ear/RTFCARD.ear
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
SECJ04001: Successfully updated the application RTFCARD with the appContextIDForSecurity information.
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
ADMA50051: The application RTFCARD is configured in the WebSphere Application Server repository.
ADMA51131: Activation plan created successfully.
ADMA50111: The cleanup of the temp directory for application RTFCARD is complete.
ADMA50131: Application RTFCARD installed successfully.
Application RTFCARD installed successfully.
To start the application, first save changes to the master configuration.
Changes have been made to your local configuration. You can:
  • Save directly to the master configuration.
  • Review changes before saving or discarding.
To work with installed applications, click the "Manage Applications" link.
Manage Applications
```

17. Click **Save** and save the master file configuration. This action displays the details on the *Master File Configuration* page.

Figure 38: Master File Configuration page



NOTE

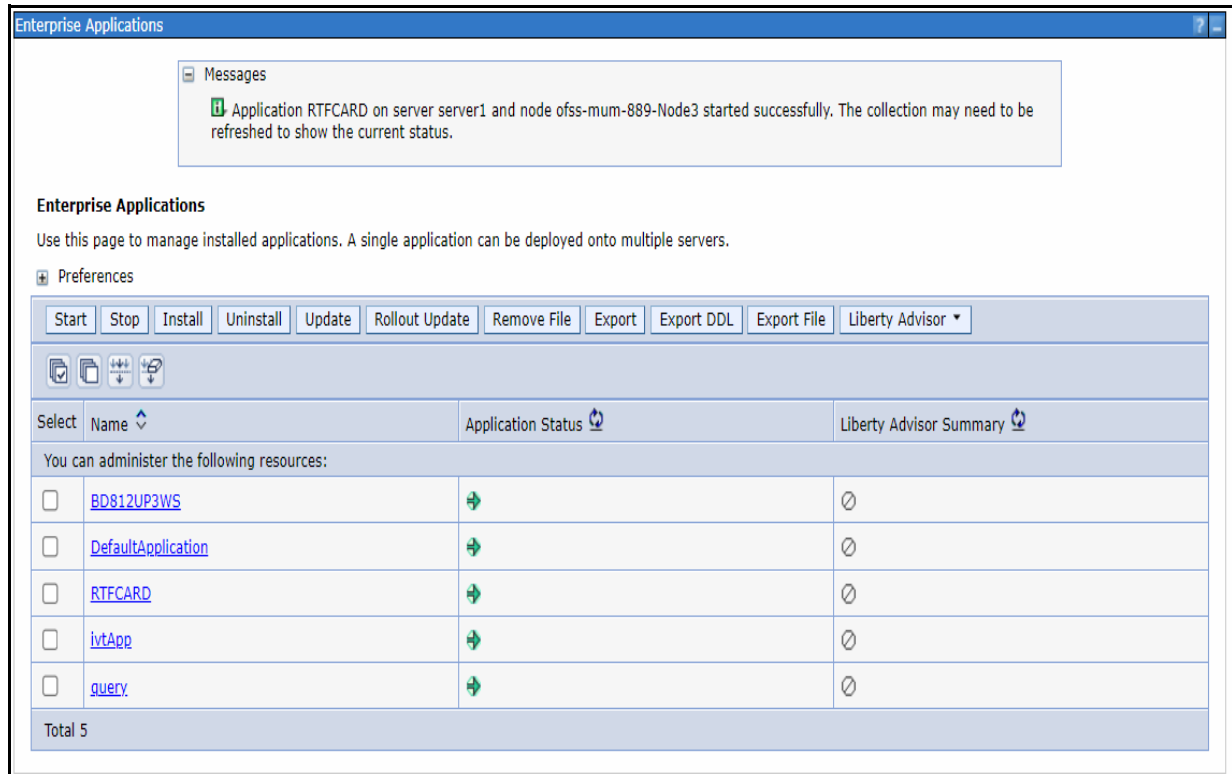
Make sure you take a backup of the Jersey Jar file to any folder and remove it by running the following command in the mentioned path.

Path: <Deployed Area>/<RTFCARD.ear>/
<RTFCARD.war>/WEB-INF/LIB

Command: Delete jersey-bundler (jersey-bundle-1.6.jar) jar

18. Select RTFCARD and click **Start**. This action displays the Enterprise Application page with a confirmation message.

Figure 39: Enterprise Application page with the Confirmation message



19. Update the key `realtime: name=StatsManager` to `realtime: name=StatsManagerCARD` in the following file.

Path: `<Deployed Area>/<RTFCARD.ear>/ <RTFCARD.war>/conf/applicationContext-jmx.xml`

20. Restart all OFS AAI servers.

3.2.1.5 Commands to Execute to Import IPE Configs

Execute the below command in the specified path to import IPE configs.

Path: `<FIC_HOME>/ficapp/common/FICServer/bin/`

Command: `./RTIImport.sh`

`$FIC_HOME/RTFCardFraudIPEProcessing/IPEAssessmentImport/OFS_RTFCARD_RTExport_Fraud.xml <INFODOM> OFS_FRAUD_EE true`

3.2.1.6 Enabling Feedback Message

If the Card IPE rules are imported, don't re run the IPE import and follow below steps to enable the Feedback message posting for Card Transactions.

1. Login with **Card Admin** user.
2. Navigate to **Inline Processing Engine** page.
3. Go to assessments Tab, Select **Card Fraud Assessment**.
4. Select **Send Card IPE Response Clean** and update **Score Lower Limit** and **Score Upper Limit** to 0.

5. Select **Send Card IPE Response Hold** and update **Score Lower Limit** to 10.
6. Save Assessment outcome.

4 Managing User Administration and Security Configuration

This chapter provides instructions on managing user administration and configuring the security attributes for the Real Time Wire Fraud and Card Fraud components.

Topics:

- [About User Administration](#)
- [User Provisioning Process Flow](#)
- [Managing User Administration](#)
- [Adding Security Attributes](#)
- [Mapping the Security Attributes](#)
- [Enabling the Cron Job](#)
- [Integrating with ECM](#)

4.1 About User Administration

User administration enables you to create and manage users, and provide access rights based on their roles. This section discusses the following:

- Administrator permissions
- Creating and mapping users and user groups
- Mapping security attributes.

4.2 User Provisioning Process Flow

Figure 40: User Provisioning Process Flow

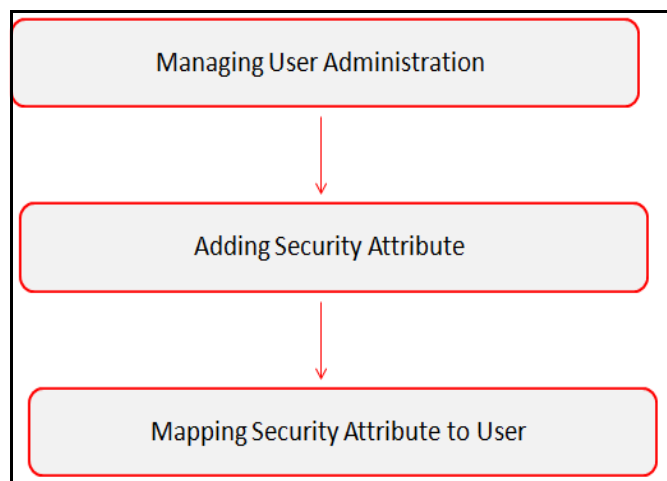


Table 6 lists the various actions and associated descriptions of the user administration process flow.

Table 6: User Provisioning Process Flow

Action	Description
Managing User Administration	Create and map users to user groups. This action allows Administrators to provide access, monitor, and administer users. This is applicable for both wire and card frauds.
Adding Security Attributes	Load security attributes. Security attributes are loaded using either Excel or SQL scripts. This is applicable only for card fraud.
Mapping the Security Attributes	Map security attributes to users. This action determines which security attributes control the user's access rights. This is applicable only for card fraud.

4.3 Managing User Administration

This section allows you to create, map, and authorize users to define a security framework that can restrict access to the Real Time Fraud component.

4.3.1 Managing Identity and Authorization

This section explains creating a user and providing access to the Real Time Fraud component.

This section covers the following topics:

- [Managing Identity and Authorization Process Flow](#)
- [Creating and Authorizing a User](#)
- [Mapping a User with a User Group.](#)

4.3.1.1 Managing Identity and Authorization Process Flow

The following figure shows the process flow of identity management and authorization:

Figure 41: Managing Identity and Authorization Process Flow

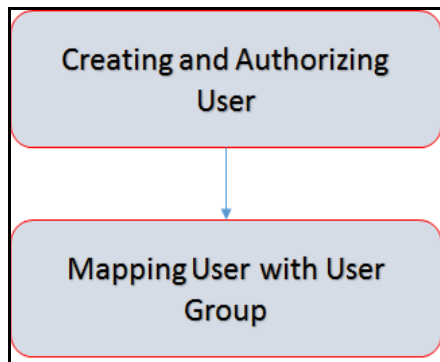


Table 7 lists the various actions and associated descriptions of the user administration process flow.

Table 7: Administration Process Flow

Action	Description
Creating and Authorizing a User	Create a user. This involves providing a user name, user designation, and the dates between which the user is active in the application.
Mapping a User with a User Group	Map a user to a user group. This enables the user to have certain privileges that the mapped user group has.

4.3.1.2 Creating and Authorizing a User

The SYSADMN user creates a user and the SYSAUTH user authorizes a user in Real Time Fraud. For more information on creating and authorizing a user, see [Oracle Financial Services Analytical Applications Infrastructure User Guide](#).

4.3.1.3 Mapping a User with a User Group

This section explains how to map Users and User Groups. With this, the user can access the privileges as per the role. The SYSADMN user maps a user to a user group in Real Time Fraud.

Table 8 describes the predefined Fraud User Roles and corresponding User Groups.

Table 8: Fraud Roles and User Groups

Role	Privileges	User Group
Wire Admin	<ul style="list-style-type: none"> • Perform Batch Access • Perform Batch Advanced • Perform Batch Authorize • Perform Batch Phantom • Perform Batch Read Only • Perform Batch Write • Manage User Preferences • Perform IPE Write • Access Fraud applications and take action on transactions. 	Wire Admin
Card Admin	<ul style="list-style-type: none"> • Perform Batch Access • Perform Batch Advanced • Perform Batch Authorize • Perform Batch Phantom • Perform Batch Read Only • Perform Batch Write • Manage User Preferences • Perform IPE Write • Access Fraud applications and take action on transactions. 	Card Admin
Wire Fraud Analyst	Access Fraud applications and take action on transactions.	Wire Analyst
Card Fraud Analyst	Access Fraud applications and take action on transactions.	Card Analyst

Table 8: Fraud Roles and User Groups

Role	Privileges	User Group
Wire Senior Supervisor	View and act on alerts that fall under their function, business domain or jurisdiction. The following actions are allowed: <ul style="list-style-type: none"> • View alert • Assign or reassign alert • Set alert decision • Search alert • View attachment • Add attachment • Bulk decision on an alert list. 	WIRESRSUPERVISORGRP
Card Senior Supervisor	View and act on alerts that fall under their function, business domain or jurisdiction. The following actions are allowed: <ul style="list-style-type: none"> • View alert • Assign or reassign alert • Set alert decision • Search alert • View attachment • Add attachment • Bulk decision on an alert list. 	CARDSRSUPERVISORGRP
Wire Auditor	View the alerts that fall under their function, business domain or jurisdiction.	WIREFRAUDAUDITORGRP
Card Auditor	View the alerts that fall under their function, business domain or jurisdiction.	CARDFRAUDAUDITORGRP

4.4 Adding Security Attributes

This section explains security attributes, the process of uploading security attributes, and mapping security attribute to users in the Real Time Card Fraud.

4.4.1 About Security Attributes

Security Attributes help an organization classify their users based on their geographical location, jurisdiction, and business domain to restrict access to the data they can view.

You need to map the roles with access privileges. Since these roles are associated with user groups, the users associated with the user groups can perform activities throughout various functional areas in Real Time Fraud.

4.4.1.1 Types of Security Attributes

The types of security attributes are as follows:

- Jurisdiction

Fraud solutions use Jurisdictions to limit user access to data in the database. Records from the Oracle client that the Ingestion Manager loads must be identified with a jurisdiction and users of the system must be associated with one or more jurisdictions. In the Fraud application, users can view only data or alerts associated with jurisdictions to which they have access. You can use a jurisdiction to divide data in the database. For example:

- **Geographical:** Division of data based on geographical boundaries, such as countries, states, and so on.
- **Organizational:** Data division based on legal entities that compose the client's business.
- **Other:** Combination of geographic and organizational definitions. In addition, it is client driven and can be
 - customized.
- Business Domain

Business domains are used for data access controls similar to jurisdiction but have a different objective. The business domain can identify records of different business types such as Private Clients versus Retail customers, or provide more granular restrictions to data such as employee data.

4.5 Mapping the Security Attributes

This section allows you to map the security attributes that include Business Domains, Jurisdictions, and Assignee groups to User Groups for Real Time Fraud.

To map Business Domain, follow these steps:

1. Add entries for Business Domain in the KDD_BUS_DMN table in the atomic database.

```
INSERT INTO KDD_BUS_DMN (
    BUS_DMN_CD,
    BUS_DMN_DESC_TX,
    BUS_DMN_DSPLY_NM,
    MANTAS_DMN_FL
)
VALUES
(
    'a',
    'General',
    'GEN',
    'Y'
)
```

2. Add entries in FCC_FR_GROUP_SEC_ATTR_MAP to map the Business Domain to the Groups.

```
INSERT INTO FCC_FR_GROUP_SEC_ATTR_MAP (
    V_GROUP_CD,
    V_SEC_ATTR_CD,
```

```
V_SEC_ATTR_VAL  
)  
VALUES (  
    'CARDFRAUDADMINGRP',  
    'BUSDMN',  
    'a'  
)
```

To map Jurisdictions, follow these steps:

1. Add entries for Jurisdiction in the KDD_JRSDCN table in the atomic database.

```
INSERT INTO KDD_JRSDCN (  
    JRSDCN_CD,  
    JRSDCN_NM,  
    JRSDCN_DSPLY_NM,  
    JRSDCN_DESC_TX  
)  
VALUES  
(  
    'E',  
    'East',  
    'EAST',  
    'EASTERN'  
)
```

2. Add entries in FCC_FR_GROUP_SEC_ATTR_MAP to map the Jurisdiction to the Groups.

```
INSERT INTO FCC_FR_GROUP_SEC_ATTR_MAP (  
    V_GROUP_CD,  
    V_SEC_ATTR_CD,  
    V_SEC_ATTR_VAL  
)  
VALUES (  
    'CARDFRAUDADMINGRP',  
    'JRSDCN',  
    'E'  
)
```

4.6 Enabling the Cron Job

Execute the following script in Atomic schema to enable user defined rules Cron Job.

- Update FCC_FR_ADMIN_CONF SET V_PARAM_VALUE='Y' where V_PARAM_NAME = 'ENABLE_USER_RULES_EXECUTION'

4.7 Integrating with ECM

Real Time Fraud is integrated with Enterprise Case Management (ECM) to perform the following tasks.

- Create and Investigate the cases
- Close the cases

To know which Real Time Fraud JSON columns are moved to ECM, See [Appendix-C: Mapping of RTF JSON to ECM Columns](#).

NOTE

Message Reference, Customer Internal Id, Account Number are mandatory for ECM integration in the Card Fraud JSON. See [Appendix-B: Card Fraud Sample JSON](#) for a sample.

To integrate Real Time Fraud with Enterprise Case Management (ECM), follow these steps:

1. Execute the following command in the Atomic database.

```
UPDATE FCC_FR_ADMIN_CONF  
SET V_PARAM_VALUE = 'true'  
WHERE V_PARAM_NAME = 'IS_L2_ANALYSIS_REQUIRED'
```

2. Go to \$FIC_HOME/RealTimeFraudCommonScripts and execute ECM_L1_ACTION_STATUS.sql in Atomic db.

3. For PMF update execute the following in Config Schema:

Wire: \$FIC_HOME/RealTimeFraudCommonScripts/RTF_Wire/WIRE_PMF_WORKFLOW_L2_ANALYSIS.sql

Card: \$FIC_HOME /RealTimeFraudCommonScripts/RTF_Card/CARD_PMF_WORKFLOW_L2_ANALYSIS.sql

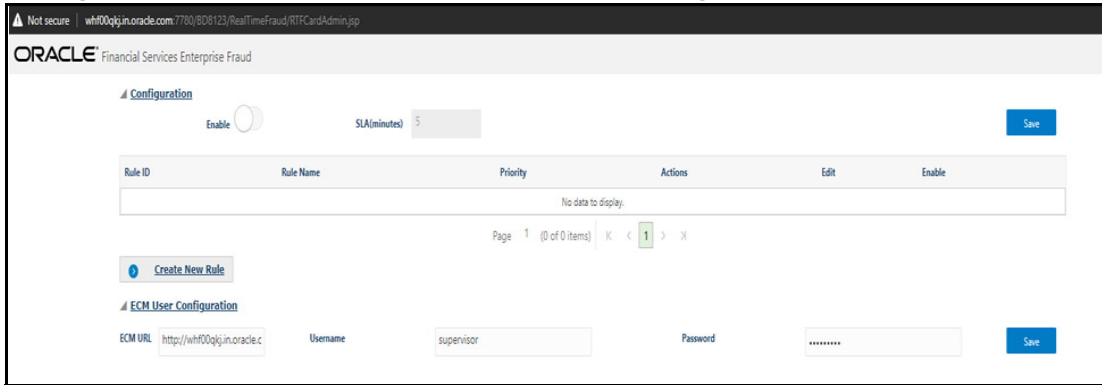
4. Execute the following in Atomic schema.

Wire: \$FIC_HOME/RealTimeFraudCommonScripts/RTF_Wire/WIRE_TRXN_CASEID.sql

Card: \$FIC_HOME /RealTimeFraudCommonScripts/RTF_Card/CARD_TRXN_CASEID.sql

5. In the Real Time Card Administration tab, add the ECM URL (http://host:port/ContextName), ECM user name and password and click **Save**.

Figure 42: Oracle Financial Services Enterprise Fraud Page



6. To integrate ECM for security attributes, mapping, and case assignment, see *Adding Security Attributes* and *Configuring Case Allocation* sections in [Oracle Financial Services Enterprise Case Management Administration and Configuration Guide](#).
7. Restart the Oracle Financial Services Analytical Applications (OFSAA) servers to refresh the changes.

4.8 Configuring Alert Archival

Users can archive the alerts based on conditions as required.

To configure the archiving of the alerts, follow these steps:

1. Navigate to `$FIC_HOME/RealTimeFraudCommonScripts/ArchivalScripts`.

NOTE Replace the `##SCHEMA_NAME##` with the actual schema name before executing the following in Atomic Database.

2. Update the condition for the archival as required and execute `FCC_ARC_METADATA.sql` in the Atomic Database.
3. Execute `FCC_ARC_CHILD_METADATA.sql` in the Atomic Database.
4. Execute the following script in the Atomic Database.

```
set serveroutput on size 100000;

begin

FOR i IN (SELECT * FROM FCC_ARC_METADATA WHERE V_APP_ID='RTF')
LOOP

PKG_FCC_ARCHIVAL_COMPRESS_UTILITY.p_fcc_archival_proc('RTF','##SCHEMA_NAME##',i.V_TABLE_NAME);

END LOOP;

end ;

/
```

5. To enable the Alert Archival, refer to [Configuring Archival](#) for Wire and [Configuring Archival](#) for Card.

4.8.1 Rolling Back Alert Archival

User can roll back archival process even after configuring it.

To roll back Alert Archival, follow these steps:

1. Navigate to the **Real Time Wire Administration** page.
2. Under **Archival Configuration**, turn OFF the **Enable** button.
3. Click **Save**.
4. Similarly, turn OFF the **Archival Configuration** for Card using the **Real Time Card Administration** page and **Save** the changes.
5. Replace `##SCHEMA_NAME##` and execute the following command in the Atomic Schema.

```
set serveroutput on size 100000;
begin
FOR i IN (SELECT * FROM FCC_ARC_METADATA WHERE V_APP_ID='RTF')
LOOP

PKG_FCC_ARCHIVAL_COMPRESS_UTILITY.P_FCC_ROLL_BACK_ARCHIVE_PROC('RTF','##
SCHEMA_NAME##',i.V_TABLE_NAME, 'Y');

END LOOP;

end ;

/
```

This action rolls back the Archival Process.

5 Configuring Real Time Wire Fraud Scoring

This chapter provides information about configuring the Real Time Wire Fraud.

Topics:

- [Operating Real Time Wire Fraud Service](#)
- [Managing Real Time Wire Fraud Scenarios/Rules](#)

5.1 Operating Real Time Wire Fraud Service

The following sections explain about the Real Time Wire Fraud Service.

- [Real Time Wire Fraud Service Request](#)
- [Real Time Wire Fraud Service Response](#)

5.1.1 Real Time Wire Fraud Service Request

The client must provide input to the Real Time Card Fraud service by posting relevant attributes into the IPE REST Service using either of the following:

- **JSP:**

`<host>:<port>/RTFWIRE/WireTransactions.jsp`

- **IPE JMS Client:**

a. To configure the JMS Client, follow the steps mentioned in chapters *Configuring IPE Sample Application Client for Real Time Mode* and *Running the IPE Client for Real Time* in the [OFS Inline Processing Engine Sample Application Installation Guide](#).

b. Copy `$FIC_HOME/RTFWireFraudIPEProcessing/IPEJMSTestClient/lib/RTFJMSTestClient.jar` file to `$FIC_HOME/realtime_processing/ipesampleapp/client/lib` path.

c. Take a copy of `IPEJMSTestClient.sh` and rename it as `IPEFraudJMSTestClient.sh`. Modify the `IPEFraudJMSTestClient.sh` file as follows.

— Update `MAIN_JAVA_CLASS=com.ofs.aai.realtime.test.JmsGatewayTest` to `MAIN_JAVA_CLASS=com.ofss.fccm.fraud.realtime.wire.test.JmsGatewayTest`

— Update `$JAVA_BIN/java $X_ARGS_GEN -classpath $_CLASSPATH $MAIN_JAVA_CLASS $1 $2 $3 $4 $5` to `$JAVA_BIN/java $X_ARGS_GEN -classpath $_CLASSPATH $MAIN_JAVA_CLASS $1 $2 $3 $4 $5 $6`

Additional parameter is the number of threads to run parallel.

The attributes must be in JSON format. For sample JSON input, see [Appendix-A: Wire Fraud Sample JSON](#).

[Table 9](#) shows the structure of the Real Time Wire Fraud message attributes.

Table 9: Real Time Wire Fraud Message Attributes

Message Attributes	Description
type	Indicates the business name of the activity in Real Time Wire Fraud.
domain	Indicates the Inline Processing Segment Code for Real Time Wire Fraud.

Table 9: Real Time Wire Fraud Message Attributes

Message Attributes	Description
applID	Indicates the application ID for Real Time Wire Fraud.

See [Appendix-F: Real Time Card Fraud Request Attributes](#) for the list of Real Time Wire Fraud request attributes.

5.1.1.1 Real Time Wire Fraud Service JMS Response Details

This section shows the details related to the Real Time Wire Fraud Service JMS Response.

[Table 10](#) shows the Real Time Wire Fraud Service JMS Response Details.

Table 10: Real Time Wire Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Not Created	Clean	This response is generated on the hold queue if the posted transaction is clean, i.e., it does not match any of the given IPE rules in the application. This action doesn't generate any alert.	<pre>{ "Transaction ID" : 2781, "Message Reference" : Message Reference, "Status" : CLEAN }</pre>
Alert Not Created	Error	This response is generated on the hold queue if the posted transaction gives an error because of bad data, bad network, server issues or any such cases.	<pre>{ "Transaction ID" : 2787, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : Failed to Evaluate, "Assessment ID" : "", "Score" : "", "Decision" : "" }</pre>

Table 10: Real Time Wire Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Created	Held	This response is created on the hold queue if the posted transaction fails at any IPE rules provided in the application. An alert in held status gets generated and the users can view it in the UI.	<pre> { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : "", "Assessment ID" : 22258, "Score" : 10.0, "Decision" : "" } { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : HOLD } </pre>
Alert Created	Release	This response is created on the hold queue if the posted transaction is released from the UI or auto-closed by Wire Administrator SLA settings.	<pre> { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : CLEAN, "Error" : "", "Assessment ID" : 22258, "Score" : 10, "Decision" : Released } </pre>

Table 10: Real Time Wire Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Created	Blocked	This response is created on the hold queue if the posted transaction is blocked from the UI or auto-closed by Wire Administrator SLA settings.	<pre>{ "Transaction ID" : 2789, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : "", "Assessment ID" : 22258, "Score" : 10, "Decision" : Blocked }</pre>

5.1.2 Real Time Wire Fraud Service Response

Any input given to the Real Time Wire Fraud service will have a response or feedback message. The client must configure a REST Service feedback URL and expose that URL to the Real Time Fraud service to receive the response from Real Time Fraud service.

You must configure the REST Service feedback URL in the `action.json.response.url` parameter in the `<RTFWIRE.war Deployed Path>/RTFWIRE/conf/install.properties` file and then restart the webserver for the configuration to take effect.

5.2 Managing Real Time Wire Fraud Scenarios/Rules

In Real Time Wire Fraud, certain out-of-the-box fraud scenarios or rules are configured in IPE. You can modify existing rules or create new ones in IPE per customer requirements.

Table 11 shows the sample out-of-the-box wire fraud risk rules configured for real-time delectation.

Table 11: Fraud Risk Rules

Wire Fraud Scenarios/Rules	Description
Cross Border Transaction	This risk rule is used to assign risk score when source country and destination country are different in a transaction.
First Transaction to a new Beneficiary & AMT> Threshold	This risk rule is used when a customer initiates a transaction to a new beneficiary for the first time. This rule checks first time transaction along with amount threshold and then assigns the risk score.
Largest Transaction for the Customer	This risk rule is used to assign risk score when a customer initiates a transaction with largest amount. Current transaction amount is compared with the average of last 10 transactions multiplied by 1.3.

Table 11: Fraud Risk Rules

Wire Fraud Scenarios/Rules	Description
Multiple Transactions from the Same IP and different Account	This risk rule is used to assign risk score when a customer initiates multiple transactions from same IP but from different customer accounts within a lookback period of 30 minutes. The lookback period is configurable.
Multiple Transactions from the multiple IP for the same Account	This risk rule is used to assign risk score when a customer initiates multiple transactions from multiple IPs and from different customer accounts within a lookback period of 30 minutes. The lookback period is configurable.
Transaction to a new Beneficiary	This risk rule is used to assign risk score when a new beneficiary is introduced for the financial institutions across customers.
Transaction to suspicious beneficiary and amount > Threshold	This risk rule is used to assign risk score when a transaction occurs with suspicious beneficiary with exceeding amount threshold. This risk rule is based on exclude list.

5.2.1 Modify Fraud Rules

You can modify existing fraud rules or create new rules in IPE as per requirement.

Perform the following to modify fraud rules.

1. Navigate to the Inline Processing Home Page.
2. Click **Evaluations**. The Evaluations page is displayed.
3. Add or modify the evaluation rules.

For more information, see [Inline Processing Engine User Guide](#).

6 Configuring Real Time Card Fraud Scoring

This chapter provides information about configuring the Real Time Card Fraud.

Topics:

- [Operating Real Time Card Fraud Service](#)
- [Managing Real Time Card Fraud Scenarios/Rules](#)

6.1 Operating Real Time Card Fraud Service

The following sections explain about the Real Time Card Fraud Service.

- [Real Time Card Fraud Service Request](#)
- [Real Time Card Fraud Service JMS Response Details](#)

6.1.1 Real Time Card Fraud Service Request

The client must provide input to the Real Time Card Fraud service by posting relevant attributes into the IPE REST Service using either of the following:

- **JSP:**

`<host>:<port>/RTFCARD/CardTransactions.jsp`

- **IPE JMS Client:**

a. To configure the JMS Client, follow the steps mentioned in chapters *Configuring IPE Sample Application Client for Real Time Mode* and *Running the IPE Client for Real Time* in the [OFS Inline Processing Engine Sample Application Installation Guide](#).

b. Copy `$FIC_HOME/RTFCardFraudIPEProcessing/IPEJMSTestClient/lib/RTFJMSTestClient.jar` file to `$FIC_HOME/realtime_processing/ipesampleapp/client/lib` path.

c. Take a copy of `IPEJMSTestClient.sh` and rename it as `IPEFraudJMSTestClient.sh`. Modify the `IPEFraudJMSTestClient.sh` file as follows.

— Update `MAIN_JAVA_CLASS=com.ofs.aai.realtime.test.JmsGatewayTest` to `MAIN_JAVA_CLASS=com.ofss.fccm.fraud.realtime.card.test.JmsGatewayTest`

— Update `$JAVA_BIN/java $X_ARGS_GEN -classpath $_CLASSPATH $MAIN_JAVA_CLASS $1 $2 $3 $4 $5` to `$JAVA_BIN/java $X_ARGS_GEN -classpath $_CLASSPATH $MAIN_JAVA_CLASS $1 $2 $3 $4 $5 $6`

Additional parameter is the number of threads to run parallel.

The attributes must be in JSON format. For sample JSON input, see [Appendix-B: Card Fraud Sample JSON](#).

[Table 12](#) shows the structure of the Real Time Card Fraud message attributes.

Table 12: Real Time Card Fraud Message Attributes

Message Attributes	Description
type	Indicates the business name of the activity in Real Time Card Fraud.
domain	Indicates the Inline Processing Segment Code for Real Time Card Fraud.

Table 12: Real Time Card Fraud Message Attributes

Message Attributes	Description
applID	Indicates the application ID for Real Time Card Fraud.

See [Appendix-E: Real Time Wire Fraud Request Attributes](#) for the list of Real Time Card Fraud request attributes.

6.1.1.1 Real Time Card Fraud Service JMS Response Details

This section shows the details related to the Real Time Card Fraud Service JMS Response.

[Table 13](#) shows the Real Time Card Fraud Service JMS Response Details.

Table 13: Real Time Card Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Not Created	Clean	This response is generated on the hold queue if the posted transaction is clean, i.e., it does not match any of the given IPE rules in the application. This action doesn't generate any alert.	<pre>{ "Transaction ID" : 2781, "Message Reference" : Message Reference, "Status" : CLEAN }</pre>
Alert Not Created	Error	This response is generated on the hold queue if the posted transaction gives an error because of bad data, bad network, server issues or any such cases.	<pre>{ "Transaction ID" : 2787, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : Failed to Evaluate, "Assessment ID" : "", "Score" : "", "Decision" : "" }</pre>

Table 13: Real Time Card Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Created	Held	This response is created on the hold queue if the posted transaction fails at any IPE rules provided in the application. An alert in held status gets generated and the users can view it in the UI.	<pre> { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : "", "Assessment ID" : 22258, "Score" : 10.0, "Decision" : "" } { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : HOLD } </pre>
Alert Created	Release	This response is created on the hold queue if the posted transaction is released from the UI or auto-closed by Card Administrator SLA settings.	<pre> { "Transaction ID" : 2788, "Message Reference" : Message Reference, "Status" : CLEAN, "Error" : "", "Assessment ID" : 22258, "Score" : 10, "Decision" : Released } </pre>

Table 13: Real Time Card Fraud Service JMS Response Details

JMS Response	Alert Action	Alert Description	Response
Alert Created	Blocked	This response is created on the hold queue if the posted transaction is blocked from the UI or auto-closed by Card Administrator SLA settings.	<pre>{ "Transaction ID" : 2789, "Message Reference" : Message Reference, "Status" : HOLD, "Error" : "", "Assessment ID" : 22258, "Score" : 10, "Decision" : Blocked }</pre>

6.2 Managing Real Time Card Fraud Scenarios/Rules

In Real Time Card Fraud, certain out-of-the-box fraud scenarios or rules are configured in IPE. You can modify existing rules or create new ones in IPE per customer requirements.

Table 14 shows the sample out-of-the-box fraud risk rules configured for real-time delectation.

Table 14: Fraud Risk Rules

Card Fraud Scenarios/Rules	Description
sudden surge in credit utilization	Assigns risk score if the user suddenly has high card usage in a short period
Cash credit withdrawal suppression	Assign risk score if the user has made frequent cash withdrawals than usual.
Previous Card Transaction from different Country	Assign risk score if the user has made high card transactions from different locations in a short period of time.

6.2.1 Modify Fraud Rules

You can modify existing fraud rules or create new rules in IPE as per requirement.

Perform the following to modify fraud rules.

1. Navigate to the Inline Processing Home Page.
2. Click **Evaluations**. The Evaluations page is displayed.
3. Add or modify the evaluation rules.

For more information, see [Inline Processing Engine User Guide](#).

7 Managing Real Time Wire Administration

Real Time Wire Administration enables you to configure SLA, a set of rules, conditions, and time for SLA. SLA defines the cut-off time period from the moment when payment is held by the Fraud application, within which the user must take necessary action.

Whenever a transaction satisfies the rules configured for the SLA, the user must take necessary action on that transaction within the specified cut-off time. The system automatically takes action on the transactions that are not acted upon before.

Topics:

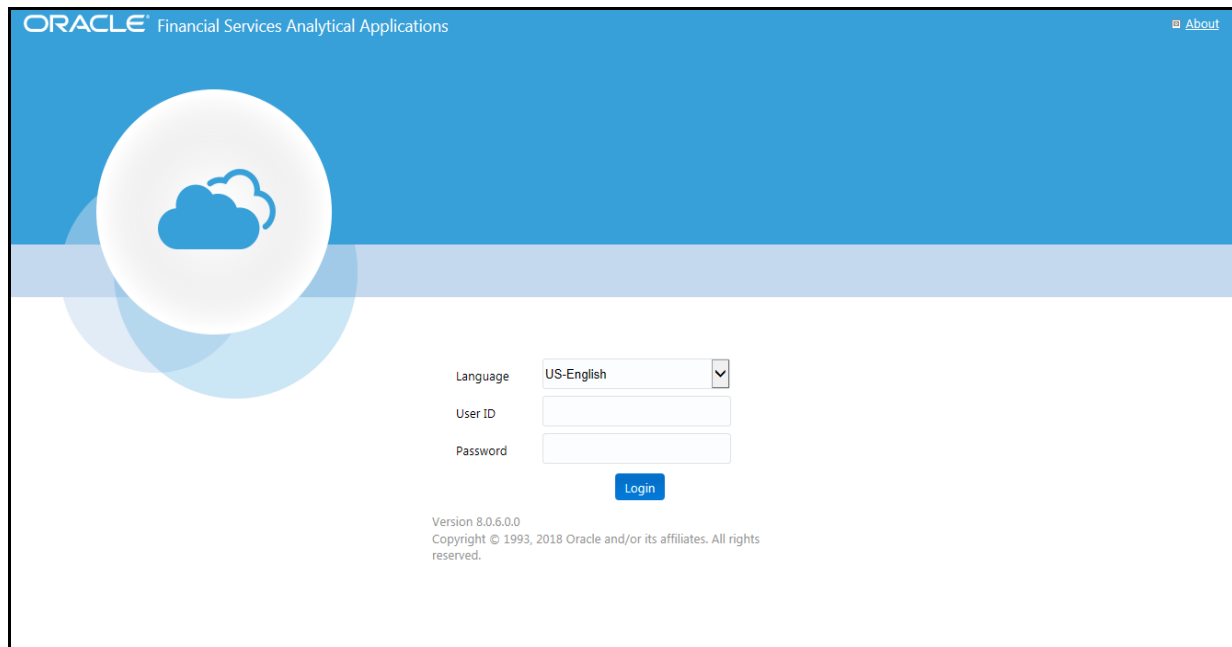
- [Accessing Real Time Wire Administration](#)
- [Configuring Real Time Wire Administration](#)
- [Configuring ECM User in Real Time Wire Administration](#)

7.1 Accessing Real Time Wire Administration

To configure Real Time Wire Administration, you must log in to the Fraud Enterprise Edition application as an Administrator.

1. Enter the OFSAA URL in your browser.
The OFSAA Login page is displayed.

Figure 43: OFSAA Login Page



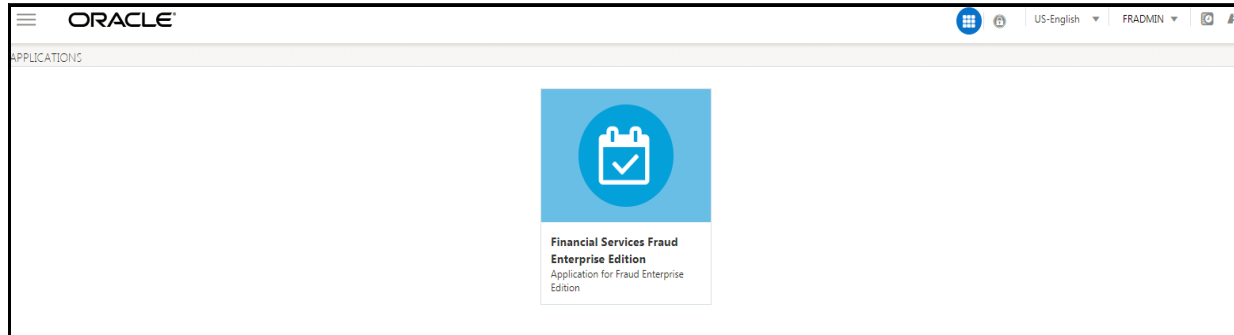
2. Select the **Language**.
3. Enter your **User ID** and **Password**.

NOTE Ensure to login as an **Administrator**.

4. Click **Login**.

This action displays the **Applications** page.

Figure 44: Fraud Enterprise Edition Applications Page



5. Click **Financial Services Fraud Enterprise Edition** from the Tiles menu.

This action displays the Financial Services Fraud Enterprise Edition Home page with the navigation list to the left.

Figure 45: Fraud Enterprise Edition Home Page



6. Click **Real Time Wire Administration** in the Navigation List.

This action displays the Real Time Wire Administration page.

7.2 Configuring Real Time Wire Administration

On the Real Time Wire Administration page, you can configure SLA by creating new rules and conditions for each rule, configuring SLA cut-off time and priority for each rule, enabling the SLA, and so on.

Perform the following to configure SLA:

1. Navigate to the Real time Wire Administration page.

2. Click **Create New Rule**.

The **Create New Rule** section expands and displays the fields required to create a new rule.

3. Enter the following details in the **Create New Rule** section.

Table 15 shows the details regarding the create new rule section.

Table 15: Create New Rule

Field	Description
Rule ID	Indicates the Rule ID.
Rule Name	Indicates the rule name.
Priority	Indicates the priority given for a rule.
Actions	Indicates the action configured for a rule.

4. Click **Create New Condition** in the **Create New Rule** section.

The **Create New Condition** section expands and displays the fields required to create a new condition.

5. Enter the following details in the **Create New Condition** section.

Table 16 shows the details regarding the create new condition section.

Table 16: Create New Condition

Field	Description
Attribute Name	Select the attribute name for which you want to create a new condition.
Comparator	Select the comparator.
Value	Enter a value for the condition.

6. Click **Save**.

The new rule is created with the added conditions and displayed in the **Configuration** section.

7. Click **Configuration**.

The Configuration section expands.

8. Turn on the **Enable** button to enable the SLA.

NOTE You can also enable individual rule by turning on the **Enable** button corresponding to each rule in the **Configurations** section.

9. Enter a cut-off time period in **SLA (minutes)** field.

10. Click **Save**.

This action configures the SLA for the Real Time Fraud.

7.3 Configuring ECM User in Real Time Wire Administration

On the **Real Time Wire Administration** page, you can configure Enterprise Case Management (ECM) user details to integrate ECM with Real Time Wire.

To configure ECM user, follow these steps.

1. Navigate to the **Real Time Wire Administration** page.

2. Under **ECM User Configuration**, enter the details as mentioned.

[Table 17](#) shows the ECM user configuration details.

Table 17: ECM User Configuration Details

Field	Description
ECM URL	Enter the ECM URL as shown in the following format. <code>host:port/contextName</code>
Username	Enter your ECM username.
Password	Enter your ECM user password.

3. Click **Save**.

7.4 Configuring Alert Lock

Alert Locking helps in locking a particular alert a user is viewing, for a specific interval. The locked alert won't allow other users to take any actions against it. However a supervisor can assign the locked alert to any other user as required.

On the **Real Time Wire Administration** page, you can configure the Alert Locking Time Interval.

To Configure Lock Interval (minutes), follow these steps.

1. Navigate to the **Real Time Wire Administration** page.
2. Under **Alert Lock Configuration**, update the **Lock Interval(minutes)** as required.
3. Click **Save**.

7.5 Configuring Archival

Alert Archival helps the users in archiving alerts based on the required condition. For more information on Alert Archival, refer to [Configuring Alert Archival](#).

To configure alert archival, follow these steps.

1. Navigate to the **Real Time Wire Administration** page.
2. Under **Archival Configuration**, turn on the **Enable** button.
3. Click **Save**.

8 Managing Real Time Card Administration

Real Time Card Administration enables you to configure SLA, a set of rules, conditions, and time for SLA. SLA defines the cut-off time period from the moment when payment is held by the Fraud application, within which the user must take necessary action.

Whenever a transaction satisfies the rules configured for the SLA, the user must take necessary action on that transaction within the specified cut-off time. The system automatically takes action on the transactions that are not acted upon before.

Topics:

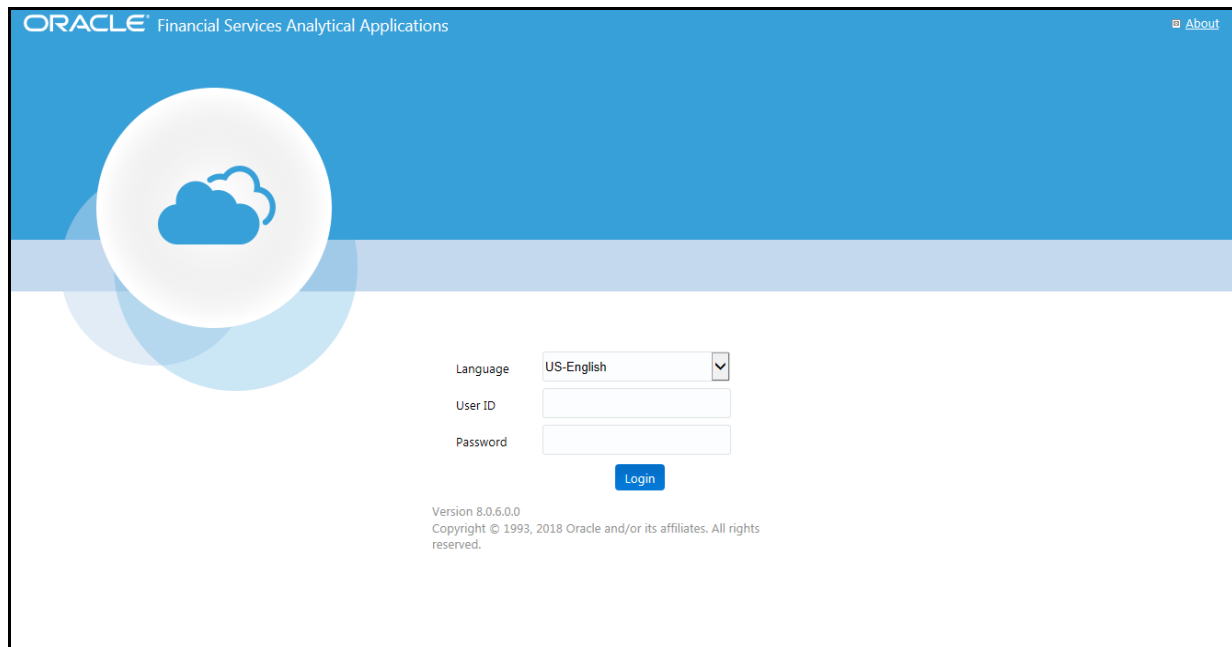
- [Accessing Real Time Card Administration](#)
- [Configuring Real Time Card Administration](#)
- [Configuring ECM User in Real Time Card Administration](#)

8.1 Accessing Real Time Card Administration

To configure Real Time Card Administration, you must log in to the Fraud Enterprise Edition application as an Administrator.

1. Enter the OFSAA URL in your browser.
The OFSAA Login page is displayed.

Figure 46: OFSAA Login Page



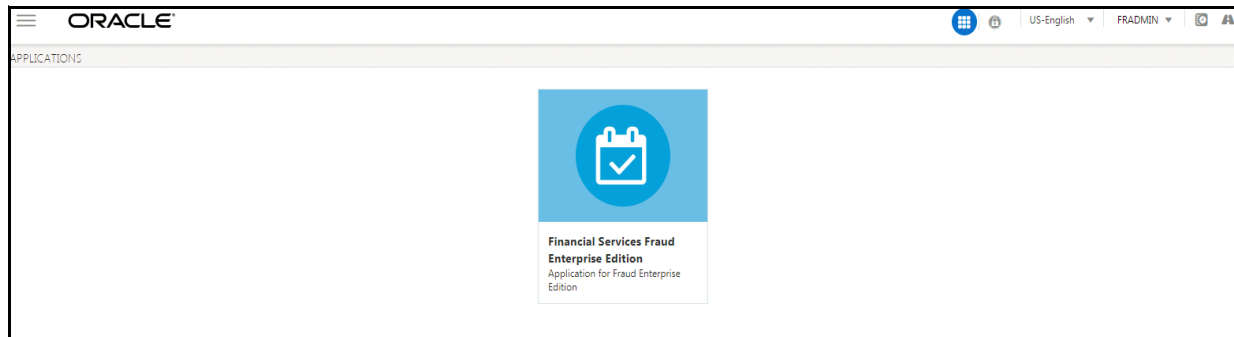
2. Select the **Language**.
3. Enter your **User ID** and **Password**.

NOTE Ensure to login as an **Administrator**.

4. Click **Login**.

The **Applications** page is displayed.

Figure 47: Fraud Enterprise Edition Applications Page



5. Click **Financial Services Fraud Enterprise Edition** from the Tiles menu.

This action displays the Financial Services Fraud Enterprise Edition Home page with the navigation list to the left.

Figure 48: Fraud Enterprise Edition Home Page



6. Click **Real Time Card Administration** in the Navigation List.

The Real Time Card Administration page is displayed.

8.2 Configuring Real Time Card Administration

On the Real Time card Administration page, you can configure SLA by creating new rules and conditions for each rule, configuring SLA cut-off time and priority for each rule, enabling the SLA, and so on.

Perform the following to configure SLA:

1. Navigate to the Real Time Card Administration page.
2. Click **Create New Rule**.

The **Create New Rule** section expands and displays the fields required to create a new rule.

3. Enter the following details in the **Create New Rule** section.

Table 18 shows the details regarding the create new rule section.

Table 18: Create New Rule

Field	Description
Rule ID	Indicates the Rule ID.
Rule Name	Indicates the rule name.
Priority	Indicates the priority given for a rule.
Actions	Indicates the action configured for a rule.

- Click **Create New Condition** in the **Create New Rule** section.
 The **Create New Condition** section expands and displays the fields required to create a new condition.
- Enter the following details in the **Create New Condition** section.

Table 19 shows the details regarding the create new condition section.

Table 19: Create New Condition

Field	Description
Attribute Name	Select the attribute name for which you want to create a new condition.
Comparator	Select the comparator.
Value	Enter a value for the condition.

- Click **Save**.
 The new rule is created with the added conditions and displayed in the **Configuration** section.
- Click **Configuration**.
 The Configuration section expands.
- Turn on the **Enable** button to enable the SLA.

NOTE You can also enable individual rule by turning on the **Enable** button corresponding to each rule in the **Configurations** section.

- Enter a cut-off time period in **SLA (minutes)** field.
- Click **Save**.
 This action configures the SLA for the Real Time Fraud.

8.3 Configuring ECM User in Real Time Card Administration

On the **Real Time Card Administration** page, you can configure Enterprise Case Management (ECM) user details to integrate ECM with Real Time Card.

To Configure ECM user, follow these steps.

- Navigate to the **Real Time Card Administration** page.

2. Under ECM User Configuration, enter the details as mentioned.

[Table 20](#) shows the ECM user configuration details.

Table 20: ECM User Configuration Details

Field	Description
ECM URL	Enter the ECM URL as shown in the following format. <code>host:port/contextName</code>
Username	Enter your ECM username.
Password	Enter your ECM user password.

3. Click **Save**.

8.4 Configuring Alert Lock

Alert Locking helps in locking a particular alert a user is viewing, for a specific interval. The locked alert won't allow other users to take any actions against it. However a supervisor can assign the locked alert to any other user as required.

On the **Real Time Card Administration** page, you can configure the Alert Locking Time Interval.

To Configure Lock Interval (minutes), follow these steps.

1. Navigate to the **Real Time Card Administration** page.
2. Under **Alert Lock Configuration**, update the **Lock Interval(minutes)** as required.
3. Click **Save**.

8.5 Configuring Archival

Alert Archival helps the users in archiving alerts based on the required condition. For more information on Alert Archival, refer to [Configuring Alert Archival](#).

To configure alert archival, follow these steps.

1. Navigate to the **Real Time Card Administration** page.
2. Under **Archival Configuration**, turn on the **Enable** button.
3. Click **Save**.

9 Appendix-A: Mapping of RTF Wire JSON to ECM Columns

This sections shows the Real Time Fraud (RTF) JSON columns that are used and mapped in the Enterprise Case Management (ECM) Environment.

Table 21 shows the RTF JSON and ECM Table column details.

Table 21: RTF Wire JSON and ECM Table Details

RTF Fraud JSON	ECM Table	ECM Column	Label
originatorPartyBIC	FCC_WIRE_TRXN_EVNT	SEND_INSTN_ID	Send FI ID
txnOriginatorCurrency	FCC_WIRE_TRXN_EVNT	SEND_CRNCY_CD	with Base amount
originatorPartyAccountIDIBAN	FCC_WIRE_TRXN_EVNT	ORIG_ACCT_ID	Originating Account ID
txnOriginatorAmount	FCC_WIRE_TRXN_EVNT	SEND_TRXN_ACTVY_AM	Send Amount
receiver	FCC_WIRE_TRXN_EVNT	RCV_INSTN_NM	Receiving FI Name
sender	FCC_WIRE_TRXN_EVNT	SEND_INSTN_NM	Send FI Name
txnAmount	FCC_WIRE_TRXN_EVNT	TRXN_BASE_AM	Base Amount
txnStartDate	FCC_WIRE_TRXN_EVNT	TRXN_EXCTN_DT	Date
counterPartyBIC	FCC_WIRE_TRXN_EVNT	RCV_INSTN_ID	Receiving FI ID
counterPartyName	FCC_WIRE_TRXN_EVNT	BENEF_NM	Beneficiary Name
counterPartyAccountIDIBAN	FCC_WIRE_TRXN_EVNT	BENEF_ACCT_ID	Beneficiary Account ID
originatorPartyName	FCC_WIRE_TRXN_EVNT	ORIG_NM	Originating Name
dataOrigin	FCC_WIRE_TRXN_EVNT	DATA_ORIGIN	Type/Source
txnId	FCC_WIRE_TRXN_EVNT	TRXN_INTRL_REF_ID	Transaction Reference ID
addrPostalCode	FCC_ACCT_ADDR_EVNT	ADDR_POSTL_CD	Postal code
addrCityName	FCC_ACCT_ADDR_EVNT	ADDR_CITY_NM	City
addrStateCode	FCC_ACCT_ADDR_EVNT	ADDR_STATE_CD	State
addrCountryCode	FCC_ACCT_ADDR_EVNT	ADDR_CNTRY_CD	Country
addrStreetLine1	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE1_TX	Address Line 1
addrStreetLine2	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE2_TX	Address Line 2
addrStreetLine3	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE3_TX	Address Line 3
addrStreetLine4	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE4_TX	Address Line 4
addrStreetLine5	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE5_TX	Address Line 5
addrStreetLine6	FCC_ACCT_ADDR_EVNT	ADDR_STRT_LINE6_TX	Address Line 6
dataOrigin	FCC_ACCT_ADDR_EVNT	DATA_ORIGIN	Source

Table 21: RTF Wire JSON and ECM Table Details

RTF Fraud JSON	ECM Table	ECM Column	Label
actId	FCC_ACCT_ADDR_EVNT	ACCT_INTRL_ID	Account ID
addrUsageCode	FCC_ACCT_ADDR_EVNT	ADDR_USAGE_CD	Description
custId	FCC_CUST_EVNT	CUST_INTRL_ID	Customer ID
custDOB	FCC_CUST_EVNT	BIRTH_DT	Date of Birth
custType	FCC_CUST_EVNT	CUST_TYPE_CD	Customer Type
jurisdiction	FCC_CUST_EVNT	JRSDCN_CD	Jurisdiction
businessDomain	FCC_CUST_EVNT	BUS_DMN_LIST_TX	Domain
actId	FCC_ACCT_EVNT	ACCT_INTRL_ID	Account ID
accName	FCC_ACCT_EVNT	ACCT_DSPLY_NM	Account Name
status	FCC_ACCT_EVNT	ACCT_STAT_CD	Status
dataOrigin	FCC_ACCT_EVNT	DATA_ORIGIN	Source
jurisdiction	FCC_ACCT_EVNT	JRSDCN_CD	Jurisdiction
businessDomain	FCC_ACCT_EVNT	BUS_DMN_LIST_TX	Domain

10 Appendix-B: Mapping of RTF Card JSON to ECM Columns

This sections shows the Real Time Fraud (RTF) JSON columns that are used and mapped in the Enterprise Case Management (ECM) Environment.

Table 22 shows the RTF JSON and ECM Table column details.

Table 22: RTF Card JSON and ECM Table Details

RTF Fraud JSON	ECM Table	ECM Column	Label
Counterparty Name	FCC_CASH_TRXN	TRXN_LOC_NM	Name
Message Direction	FCC_CASH_TRXN	DBT_CDT_CD	Debit/Credit
Originator Party AccountID/IBAN	FCC_CASH_TRXN	CNDTR_ACCT_ID	Account
Originator Party Name	FCC_CASH_TRXN	CNDTR_NM	Name
Terminal ID	FCC_CASH_TRXN	TRXN_LOC_ID	ID
Terminal Merchant/Fl Original script Name	FCC_CASH_TRXN	TRXN_LOC_NM	Name
Transaction Amount	FCC_CASH_TRXN	TRXN_ACTVY_AM	Activity
Transaction Date Start	FCC_CASH_TRXN	TRXN_EXCTN_DT	Date
Account Status Code	FCC_ACCT	ACCT_STAT_CD	Status
Card status	FCC_ACCT	ACCT_STAT_CD	Status
Name on Card	FCC_ACCT	ACCT_DSPLY_NM	Account Name
Action	KDD_CASE_ACTIONS	ACTION_ID	Action:
Action Time	KDD_CASE_ACTIONS	ACTION_TS	Date and Time
Annual Income	KDD_CASE_CUSTOMERS	ANNL_INCM_BASE_AM	Estimated Annual Income
Assignee	KDD_CASES	ASSIGNED_TO_ID	Assignee
Status	KDD_CASES	STATUS_CD	Status
Account Added Date	FCC_CUST	CUST_ADD_DT	Added
Customer Address Line 1	FCC_CUST_ADDR	ADDR_STRT_LINE1_TX	Address
Customer Alias	FCC_CUST	ALIAS_NM	Alias
Customer Country Of Residence	FCC_CUST	RES_CNTRY_CD	Residence
Customer Credit Score	FCC_CUST	CUST_CDT_SCORE	Credit Score
Customer Date of Birth	FCC_CUST	BIRTH_DT	Date of Birth
Customer Phone Extension 1	FCC_CUST_PHON	PHON_EXT_NB	Extension

Table 22: RTF Card JSON and ECM Table Details

RTF Fraud JSON	ECM Table	ECM Column	Label
Customer Phone Number 1	FCC_CUST_PHON	PHON_NB	Phone
Employer Name	FCC_CUST	MPLYR_NM	Employer
Identifier Number	CUST_ID_DOC	CUST_INTRL_ID	Customer ID
Account Credit Limit Amount	FCC_LOAN	MAX_LOAN_LIMIT_BASE_AM	Maximum Loan Limit
Account Number	FCC_LOAN	LOAN_INTRL_ID	ID
Account Open Date	FCC_LOAN	LOAN_ORIG_DT	Originating Date
Account Type	FCC_LOAN	LOAN_DESC_TX	Description

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