

Image Services Resource Adapter

Deployment Guide

For Oracle 10g Application Server

Release 3.4 Fixpack 3

April 2009

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About This Manual

This manual provides information about configuring Image Services Resource Adapter (ISRA) version 3.4.0 on Oracle 10g platform. Refer the separate ISRA Installation Guide for Installing ISRA 3.4.0.

Conventions Used in the Document

<u>Conventions</u>	Description
Fixed Size font	Used for commands entered at the system command prompt.
Arial font	Used for important notes
Bold	Occasionally used to refer to portions of user interface, such as the Next button or the Install button

The table lists the formatting conventions used in this document.

Related References

For all ImageViewer parameters please refer to the FNImageViewer documentation provided with ISRA installation media.

<ISRA-home>\ISRA340\FNImageViewer\docs

For all P8 System Manager related information, please refer to P8 System Manager documentation, provided with ISRA installation media.

<ISRA-home>\ISRA340\SystemManager\docs

Comments and Suggestions

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ISRA Deployment

This chapter describes the deployment of ISRA on the Oracle 10g Application Server platform.

Note The installation procedure for Oracle 10g Application Server is outside the scope of this document. This guide assumes that the required settings and configurations have already been made.

The ISRA module is a set of Java interfaces/classes that implements J2EE Connector Architecture specified contracts and the EIS specific functionality. ISRA plugs into the Oracle 10g Application Server in a modular manner.

Deployment Requirements

This section lists the minimum software and hardware requirements for successful deployment of ISRA on Oracle 10g Application Server.

Caution All the xml related to the deployment of ISRA must be created manually or use a pre-existing file that is valid. Do not copy xml contents straight from the Deployment Guide

Hardware Requirements

- Please refer to the Oracle 10g Application Server system requirements section at: <u>http://otn.oracle.com</u>
- ISRA installation will require approximately 120 MB free disk space.

Software Requirements

- Oracle 10g (9.0.4) and 10g Release 3 (10.1.3) Server on Microsoft Windows 2003 Server, Sun Solaris 9/10, HPUX 11i v1, IBM AIX 5.2 SP2/5.3 SP3 and RedHat Linux AS 3.0/4.0.
- IBM FileNet IS 3.6 SP2 and above

Mandatory Requirements for ISRA

The mandatory requirements for ISRA 3.4.0 include:

- 1. Include the folder in which **WinPerfMon.dll** is present in the system path in case of Windows operating system. In UNIX, this file is not required.
- 2. The files **listener.jar** and **log4j-1.2.8.jar** are not present in **ISRA.rar**. For Oracle 10g, the **listener.jar** and **log4j-1.2.8.jar** need to be bundled in the **ISRA.rar** file before deploying **ISRA.rar** on the Application Server.

To bundle listener.jar and log4j-1.2.8.jar:

- a. Run jar -xvf ISRA.rar command from temporary folder location.
- b. Delete ISRA.rar file from temporary folder.
- c. Add **listener.jar** and **log4j-1.2.8.jar** to the temporary folder. (The System Manager folder contains the **listener.jar** and **log4j-1.2.8.jar**).
- In the command prompt, navigate to temporary folder where ISRA.rar is extracted. Create ISRA.rar using the JAVA command:
 jar -cvf ISRA.rar *.*.
- 3. Enter the initial and maximum JVM heap size as 512.

Deploying ISRA

ISRA is deployed using the Oracle 10g Application Server console. The Resource Adapter can be deployed on Oracle 10g Application Server by deploying **ISRA.rar** file.

Deploying ISRA.rar

After the installation is complete, the ISRA software and documentation installed is in $C:\fnsw\ISRA340$, deploy the ISRA connector on OC4J.

Graphical Administration

To deploy the ISRA.rar file:

- 1. From the DOS prompt, navigate to the directory where OC4J is installed. For example, <ORACLE_HOME>\bin
- 2. Start OC4J server by executing the command on the DOS prompt,

oc4j -start

3. Launch a Web browser and open the Oracle Enterprise Manager console using the URL as http://localhost:<Port Number>/em in the Address bar. The following screen appears:

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ORACLE Enterprise Manager 10g					
Login					
▲ User Name					
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4. Enter the **User Name** and **Password**. Click **Login**. The following screen appears:

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5. Click the **Applications** tab.

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Copyright @ 1996, 2005, Oracle. All rights	s reserved.	<u>Setup</u> <u>Logs</u> <u>H</u>	elp Logo	ut		
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6. Select **Standalone Resource Adapter** in the **View** dropdown box. Click **Deploy**. The following screen appears:

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The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR file Modules (RAR files).	es) and Resource Adapter
Archive is present on local host. Upload archive to the server where Application Server Control is running.	
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C Archive already present on server where Application Server Control is running.	
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The location on server must be the absolute pair or the relative pair from preentine	
Deployment Plan	
The deployment plan is a file which allows you to customize deployment settings for an application. If you do not have a deployment, created during this process. In the Deployment Settings step you can optionally edit the deployment plan, and you can optionally say deployment of this application.	
Automatically create a new deployment plan. The deployment plan settings will be based on OC4J defaults and information contained in the archive	
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Location on Server The location on server must be the absolute path or the relative path from i2ee/home	
The resident of service many we are associate path of the relative path from peen one	Cancel Step 1 of 3 Next
9 🖂 <u>#</u> 97 🗍	Cancel Sten 1 of 3 Next

 Click Browse button under Archive. Navigate to the directory where ISRA 3.4.0 is installed. Select the ISRA.rar file from the jar folder of ISRA installation directory. Click Next. The following screen appears:

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Deploy: Application Attributes		
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Copyright © 1996, 2005, Oracle. All rights reserved.	<u>Setup</u> <u>Logs</u> <u>Help</u> <u>Logou</u>	<u>t</u>
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8. Enter the **Resource Adapter Name** and click **Next**. The following screen appears:

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		Select Archive Application Attributes Deployment Settings				
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Archive Type Resource Adap Archive Location ISRA.rar Deployment Plan Creating a new Deployment Tasks The table below lists common ta	/ plan	R file) Application Name ISRA				
Task Name	Go To Task	Description				
Map Environment References	Ø	Map any environment references in your application (e.g. data sources) to physical entities currently present on the operational environment.				
Select Security Provider	0	A security provider acts as the source for available users and groups when mapping security roles.				
Map Security Roles	Ø	Map any security roles exposed by your application to existing users/groups. Users and groups will be obtained from your choice of security provider.				
Configure EJBs	Ø	Configure the Enterprise JavaBeans in your application.				
Configure Clustering	Ø	Configure clustering of your application.				
Configure Class Loading	Ø	Manipulate the classpath of your application.				
Advanced Deployment Plan You can optionally use the Edit I deployment options which the de	Deployment Plan					
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9. Click **Deploy**. The Confirmation screen appears:

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Aug 24, 2006 7:31:12 PM] Done unpacking ISRA rar	
Aug 24, 2006 7:31:12 PM] Starting up resource adapter	
Aug 24, 2006 7:31:12 PM] Connector Module Deployer for ISRA COMPLETES. Operation time: 203 msecs	
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Application Server Control Setue Loas Help Loaod OC4J: home Page Refreshed Aug 24, 2006 7:31:45 PM IST Home Applications Web Services Performance Administration This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this OC4J instance. View Standalone Resource Adapters Statt Stop Undeploy Statts Status EIS Type © ISRA ↑ C OracleASjms OracleAS JMS Home Applications Web Services Setue Logs Help Logout Setue Logs Help Logout	New Tab 💊 (Untitled)		×
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Deploy (Stat: Stop Undeploy) Redeploy) Select. Resource Adapter A Resource Adapter Module Status EIS Type © ISRA ① FileNet Image Services ① ○ OracleASjms OracleASjms ① OracleAS JMS Home Applications Web Services Performance Administration Setup Logs Help Logout Setup Logs Help Logout Setup Logs Help Logout	This page shows the J2EE applications and application components (EJB Modules, W	AR Modules, Resource Adapter I	Modules) deployed to this OC4J instance.
Stat) Stop Undeploy) Else Select Resource Adapter A Resource Adapter Module Status EIS Type © ISRA ① FileNet Image Services © OracleASims OracleASims ① Home Applications Web Services Performance Administration	View Standalone Resource Adapters -		
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11. Click **ISRA** from the Resource Adapter list. The following screen appears:

© Oracle Enterprise Manager (oc4jadmin) - Resource Adapter: ISRA - Netscape File_Edt. View. Go. Bookmarks_Tools_Window_Help	_ _ X
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OC4J: home > Application: default >	
Resource Adapter: ISRA	
Home Connection Factories Administered Objects Administration	Page Refreshed Aug 24, 2006 7:40:04 PM IST
Status Ug Undeploy Redeploy Name ISRA Status Ug Resource Adapter Module ISRA Path CXCJJj2eehomekconnectors\ISRA\ISRA Description Unavailable Vandor Name FileNet EISTYpe FileNet EISTYpe FileNet EISTYpe FileNet EISTYpe FileNet JCA Specification Version 3.3.0 JCA Specification Version 1.0 License Required False Service Contracts Moltaneticon Communication with EIS bidirectional 1 Transaction NoTransaction Authentication Mechanisms 1 Resuthentication Support False	Resource Adapters A resource adapter is a driver that an application server uses to connect to a specific Enterprise Information System (EIS) A resource adapter inplements system level contracts (such as connection management, transaction management and security) to integrate the application server and the EIS. A resource adapter can be used by the application server for both outbound and inbound communication with the EIS. Click the following links for information on completing common resource adapter management tasks: <u>O Create a connection factory</u> <u>O Create an administered object</u>

12. Click **Connection Factories** tab to configure the connection factory for the deployed resource adapter. The following screen appears:

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OC4J: home > Application: default >					
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Home Connection Factories	Administered Object	<u>ots</u> <u>Adminis</u>	stration		
currently configured for this resource ad	apter.		components to obtain connections to the		Create
JNDI Location	Connection Factory	Interface	Connection Pool Used	Monitor Connection Factory	Delete
No connection factories found					
Shared Connection Pools					
			adapter, that can be shared amongst con connection factory cannot be deleted.	nection factories that use the same conr	
Name		In Use	Monitor Connection Pool	Cleanup Connections	Create
No shared connection pools found		iii use	Monitor Connection Foor	Cleanup Connections	Delete
Home Connection Factories	Administered Obied	cts Adminis	tration		
Connection Factories	<u>Automotored object</u>	<u></u>	Aradon .		
Copyright © 1996, 2005, Oracle. All rights reser	ved.	<u>Setup</u>	Logs Help Logout		
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13. Click Create button of JNDI Location. The following screen appears:

🔊 Oracle Enterprise Manager (oc4jadmin) - Create Connection Factory: Select Interface - Netscape
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Ven Tab 🛇 Oracle Enterprise Manager (oc4)admin) - C
ORACLE Enterprise Manager 10g
Application Server Control
Setuo Lozas Hello Lozas
OC4J; home > Application: default > Resource Adapter: ISRA >
Create Connection Factory: Select Interface
Cancel Continue
To configure an instance of a connection factory, you must select the connection factory interface to be used. The connection factory interfaces supported by this resource
adapter are shown below. Select the interface you wish to have this connection factory instance use, and then click on Continue.
Connection Factory Interface 🛛 javax. resource.cci. ConnectionFactory 💌
Cancel) (Continue)
Setup Logs Help Logout
Copyright ©1996, 2005, Oracle. All rights reserved.
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14. Select the **Connection Factory Interface** and click **Continue**. The following screen appears:

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😧 New Tab 🛇 Oracle Enterprise Manager (oc4)admin) - C
Application Server Control Setue Logo.dt
OC4J: home > Application: default > Resource Adapter: ISRA >
Create Connection Factory
(Back) (Cancel) (Finish)
Page Refreshed Aug 24, 2006 7:42:43 PM IST
Connection Factory Interface javax.resource.cci.ConnectionFactory
* JNDI Location
Connection Pooling
Connection pooling allows a set of connections to the EIS to be reused within an application. An application can choose to either create its own exclusive connection
pool or use one of the shared connection pools available for this resource adapter.
No Connection Pool
C Use Private Connection Pool
🖉 Use Shared Connection Pool 📗 💌 —
Configuration Properties
Configurable properties for this connection factory are listed below. You can specify or override the values for these properties.
Name 🛆 Type Value
AllowAnonymousUser java.lang.Boolean true
CacheRefreshInterval java.lang.Integer 30
ClientCodepage java.lang.String
DeploymentInstance java.lang.Integer 1
DomainName java.lang.String jpis36ora
lgnoreObjectBusyMsgInDocMigration java. lang. Boolean false
Indexent Latin in Latence Latence In Constant

15. Specify the **JNDI Location** and configurable properties and then click **Finish**. The following screen appears with the list of configured connection factories:

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ORACLE Enterprise Manager 10g					
Application Server Control				Setup Logs H	elp Logout
OC4J: home > Application: default > Resource Adapter: ISRA					
				Page Refreshed Aug 24, 2006 7:4	6:56 PM IST
Home Connection Factories	Administered Objects Adr	ministrat	ion		
Connection factories exposed by the reso		tion corr	ponents to obtain connections to th	e EIS. This table lists the connection fact	ories
currently configured for this resource ada	iter.				Create)
JNDI Location A Connection	Factory Interface		Connection Pool Used	Monitor Connection Factory	Delete
ISCF javax.resource	e.cci.ConnectionFactory		None	Ē	Û
Shared Connection Pools					
Shared connection pools are connecti				nnection factories that use the same con	nection
factory interface. A shared connection	pool that's currently being used b	by a con	nection factory cannot be deleted.		Create
Name	In Use		Monitor Connection Pool	Cleanup Connections	Delete
No shared connection pools found					
Home Connection Factories	Administered Objects Adr	ministrat	ion		
Copyright @ 1996, 2005, Oracle. All rights reserve		up I Loj	<u>gs Help Logout</u>		
🕓 🖂 🤱 🖭 📄 http://localhost:8888/em/co	nsole,lias/oc4j/cf/cfCreate?raModule=ISRA&app	p=default8r	'a=ISRA#		≕∎≓ ¶⊒ 🗗 //

- 16. This completes the ISRA deployment through graphical administrative interface.
- 17. Deploying ISRA is completed.

 Next step is to complete the Mandatory steps necessary for ISRA. Refer to <u>Mandatory Requirements for ISRA</u> section before restarting the Application Server.

Command Line Administration

To deploy the **ISRA.rar** file:

- 1. From the DOS prompt, navigate to the directory where OC4J is installed. For example, <ORACLE_HOME>\bin for OC4J 10g (Version 10.1.3.0.0) and <ORACLE_HOME>\j2ee\home for OC4J 10g (Version 9.0.4.0.0)
- 2. Start OC4J server by executing the following command on the DOS prompt,

```
oc4j -start (For OC4J 10g Version 10.1.3.0.0)
```

- java -jar oc4j.jar (For OC4J 10g Version 9.0.4.0.0)
- 3. From the DOS prompt, navigate to the directory where OC4J is installed. For example,

<ORACLE_HOME>\j2ee\home

4. Then enter the following command:

```
java -jar admin.jar
ormi://<oc4j_host>:<oc4j_ormi_port>
admin <password> -deployConnector -name ISRA -
file <drive>:\fnsw\ISRA340\jar\ISRA.rar
```

- 5. This will deploy the ISRA connector in the OC4J server.
- 6. The JNDI name and configurable properties can be specified using the **oc4jra.xml** file located at:

```
<ORACLE_HOME>\j2ee\home\application-
deployments\default\ISRA\oc4j-ra.xml
```

- 7. Open the oc4j-ra.xml file and edit the connection factory tag to include the location value. This is the JNDI name that the Sample Application will use to find the connector. The Sample Application, by default, uses ISCF. For example, <connector-factorylocation="ISCF" connector-name="ISRA">
- 8. Before stopping and restarting the OC4J server, modify the descriptor xml files by changing the property names to begin with lower case (For OC4J 10g Version 9.0.4.0.0).
- Using Windows Explorer, navigate to the following directory: <ORACLE_HOME>\j2ee\home\connectors\ISRA\ISRA\META-INF

User is required to have a backup of these XML files, in case, an error occurs.

10. Edit all the property names (except "RPCLogging", "ISLocale" and "PCHLogging") in **ra.xml** file to start with a lower case, for example,

<config-property-name>DomainName</config-property-name>

is changed to

<config-property-name>domainName</config-property-name>

11. Modify the property value of both the Domain Name and Organization Name to match the domain and Organization name of the IS Server, which is being connected. For example,

<config-property-value>YOUR_DOMAIN</config-property-value>

<config-property-value>YOUR_ORG</config-property-value>

- 12. Change the server setting in the **oc4j-ra.xml** file at the following location: <ORACLE_HOME>\j2ee\home\application-deployments\default\ISRA\
- 13. Open the file **oc4j-ra.xml** in a text editor.
- 14. Edit all the property names (except "RPCLogging", "ISLocale" and "PCHLogging") to start with a lower case. For example:

<config-property name="DomainName" value="DemoIS" />

is changed to

<config-property name="domainName" value="DemoIS" />

- 15. Edit the value of the DomainName and OrganizationName to match the IS environment.
- 16. Stop the OC4J server by executing the following command at the DOS prompt:

```
<ORACLE_HOME>\bin\ oc4j -shutdown -port
<oc4j_ormi_port> -password <pwd> (For OC4J 10g Version
10.1.3.0.0)
```

<ORACLE_HOME>\j2ee\home\java -jar admin.jar ormi://<oc4j_host>:<oc4j_ormi_port> admin <password> shutdown (For OC4J 10g Version 9.0.4.0.0)

17. After the shutdown is complete, restart the OC4J server.

The server should start without errors. If there are case sensitive errors in any of the configuration files edited above, correct them, stop the server and again restart the server. If the server initializes without errors then the connector is deployed.

This completes the ISRA deployment through command line administrative interface.

Explanation for Terminal name and ISRALock folder

The first instance of ISRA deployed on an Application Server creates a folder named "ISRALock" and a file named¹ "ISRALock.0" inside that folder. The counter "0" in the file name "ISRALock.0" increments subsequently with each new deployment of ISRA and the same is appended to the terminal name generated for an ISRA instance. This folder is created in the path resolved by the system property "user.dir", which is the same path where the ISRA logs are generated. This functionality has been introduced in ISRA 3.2.1 to support vertical cluster environment.

Terminal name identifies ISRA instance with a unique id so that IS can distinguish each ISRA client uniquely for communication. Earlier, the terminal name used to be of the form "SV<instance number>.<Counter1>@IPAddress". In case of a vertical cluster, ISRA can be deployed across the cluster on a single machine. But in such a scenario, all the managed server instances in a cluster will have the same ISRA instance deployed and will generate the same terminal name, as the "IPAddress" and "instance number" will be same for all the ISRA instances. The current format of a terminal name generated by ISRA is "RA<instance number>.<Counter1>.<Counter2>@IPAddress", where Counter2 is the counter appended to the files created in the ISRALock folder as mentioned above. The files created in the ISRALock folder will be automatically removed if

¹ ISRALock.0 (0-9 and a-z) would be created in ISRA 3.4 FP3 and above. Prior versions of ISRA would have files created as ISRALock.0000 (0000-9999).

the managed servers are gracefully shut down (in case of proper JVM shutdown).

See <u>Configurable ra.xml Properties</u> section below for "<u>DeploymentInstance</u>" property setting.

ISRA Configuration

This chapter describes the configuration of ISRA deployed on oracle 10g Application Server.

Configuring Deployed ISRA

This section describes how to edit the ISRA deployment descriptor after deployment.

ISRA uses the J2EE Connector Architecture deployment descriptor, called **ra.xml**, to define its operational parameters. The deployment descriptor is defined by Sun Microsystems in the J2EE Connector Architecture 1.0 specification. It describes the Resource Adapter related attributes, types, and deployment properties, using a standard Document Type Definition (DTD).

To edit the ISRA deployment descriptor:

1. Click the Connection Factory created (Refer to <u>Deploying ISRA.rar</u> section for details). The following screen appears:

	- Edit Connection Factory: ISCF - N indow Help	etscape]_
	tp://localhost:8888/em		
🖽, 🐔 Home My Netscape 🔍 Sear	ch		
Netscape - Enter Search Terms	▼ Q Search ∦Higi	nlight 🔊 Pop-Ups Blocked: 0 🥜 Form Fill 👻 🧭 Clear I	Browser History 👼 News 🖾 Email 🔅 Weathe
New Tab 🛇 Oracle Enterprise Manager (oc			······································
DRACLE Enterprise Manager 10g application Server Control	1		<u>Setup Loas Help Logout</u>
C4J: home > Application: default > Re			
dit Connection Factory: ISCF			Revert Apply
General Security Options		Pag	e Refreshed Aug 24, 2006 7:48:47 PM IST
JNDI Location ISCF Connection Factory Interface javax. Connection Interface javax. Connection Pool None		ry	
Connection Factory Interface javax. Connection Interface javax. Connection Pool None Configuration Properties	resource.cci.Connection		
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Connection Factory Interface javax. Connection Interface javax. Connection Pool None Configurable properties Configurable properties for this connect Name △	resource.cci.Connection ction factory are listed below. You Type	I can specify or override the values for these propertie Assembled Value	Deployed Value
Connection Factory Interface javax. Connection Interface javax. Connection Pool None Configuration Properties Configurable properties for this connect Name △ AllowAnonymousUser	resource.cci.Connection ction factory are listed below. You Type java.lang.Boolean	I can specify or override the values for these propertie Assembled Value true	Deployed Value true
Connection Factory Interface javax. Connection Interface javax. Connection Pool None Configuration Properties Configurable properties for this connec Name ∧ AllowAnonymousUser CacheRefreshInterval	resource.cci.Connection stion factory are listed below. You Type java.lang.Boolean java.lang.Integer	I can specify or override the values for these propertie Assembled Value	Deployed Value
Connection Factory Interface javax. Connection Interface javax. Connection Pool None Configuration Properties Configurable properties for this conner Name ∧ AllowAnonymousUser CacheRefreshInterval ClientCodepage	resource.cci.Connection Stion factory are listed below. You Type java.lang Boolean java.lang Integer java.lang String	I can specify or override the values for these propertie Assembled Value true	Deployed Value true
Connection Factory Interface javax. Connection Point Interface javax. Connection Pool None Configurable properties Configurable properties for this connect Name △ AllowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance	resource.cci.Connection Stion factory are listed below. You Type Java.lang.Boolean Java.lang.Integer Java.lang.String Java.lang.Integer	- L can specify or override the values for these propertie Assembled Value true 30	Deployed Value true 30 1 1
Connection Factory Interface javax. Connection Point Interface javax. Connection Pool None Configurable properties Configurable properties for this connect Name / AllowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance DomainName	resource.cci.Connection Stion factory are listed below. You Type Java.lang.Boolean Java.lang.Integer Java.lang.String Java.lang.Integer Java.lang.Integer	- L can specify or override the values for these propertie Assembled Value true 30	Deployed Value true
Connection Factory Interface javax. Connection Point Interface javax. Connection Pool None Configuration Properties Configurable properties for this connect Name △ AllowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance DomainName IgnoreObjectBusyMsgInDocMigration	resource.cci.Connection	Assembled Value true 30 1 jpis36ora	Deployed Value true 30 1 jpis36ora
Connection Factory Interface javax. Connection Point Interface javax. Connection Point None Configurable properties Configurable properties for this connect Name A AllowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance DomainName IgnoreObjectBusyMsgInDocMigration InherentLogin	resource.cci.Connection ction factory are listed below. You Type java.lang.Boolean java.lang.String java.lang.String java.lang.Boolean java.lang.Boolean java.lang.Integer	can specify or override the values for these propertie Assembled Value true 30 1 jpis36ora false	Deployed Value true 30 1 jpis36ora false
Connection Factory Interface javax. Connection Pool Interface javax. Connection Pool None Configuration Properties Configurable properties for this connect Name A AllowAnonymousUser CacheRefreshinterval CleintCodepage DeploymentInstance DomainName IgnoreObjectBusyMsglnDocMigration InherentLogin	resource.cci.Connection	can specify or override the values for these propertie Assembled Value true 30 1 jpis36ora false 0 en	Deployed Value true 30 1 jpis36ora false 0
Connection Factory Interface javax. Connection Pool None Configuration Properties Configuration Properties Configurable properties for this connect Name A AllowAnonymousUser CacheRefreshInterval CientCodepage DeploymentInstance DomainName IgnoreObjectBusyMsgInDocMigration InherentLogin ISLocale LdapImpIClassName	resource.cci.Connection ction factory are listed below. You Type java.lang.Boolean java.lang.String java.lang.String java.lang.Boolean java.lang.Boolean java.lang.Integer	can specify or override the values for these propertie Assembled Value true 30 1 jpis36ora false 0 en	Deployed Value true 30 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

2. Modify the required property and click **Apply**. Restart the server for settings to take place.

Alternatively,

1. Remove all files from ISRATemp directory and copy **ISRA.rar** in it. Change directory to ISRATemp.

In the $\ensuremath{\mathsf{ISRATemp}}$ directory, run the command <code>jar -xvf ISRA.rar</code>

This command will cause the ISRA.rar file to extract in the current directory.

Select the ra.xml file in the META-INF folder and edit the ra.xml file in a preferred text editor

For more details, refer <u>Configurable ra.xml Properties</u> and <u>Changing ISRA</u> <u>Specific Parameters for LDAP</u>.

- 2. After making the modifications, save the **ra.xml** file in the same folder.
- 3. To reconstruct the **ISRA.rar** file, enter the command from ISRATemp directory:

jar -cvf ISRA.rar *

This command will create ISRA.rar file with modified ra.xml bundled into it.

Changing ISRA Specific Parameters

Configurable ra.xml Properties

Note Please note that all properties described in the deployment descriptor are mandatory and no property should be removed. Default values should be specified for properties that users do not want to use.

The configurable properties to be set (modified) in **ra.xml** are:

- DomainName
- OrganizationName
- LoggingLevel
- LoggingMode
- PageBufferSize
- <u>CacheRefreshInterval</u>
- SecurityCacheMode
- <u>MetaDataCacheRefreshMode</u>
- LogFileName
- LogFileSize
- LdapImplClassName
- LdapImplClassString
- InherentLogin
- DeploymentInstance
- PCHLogging
- <u>AllowAnonymousUser</u>
- RPCLogging

- <u>ClientCodepage</u>
- GMTEnabled flag
- ISLocale
- IgnoreObjectBusyMsgInDocMigration

DomainName

This is the domain name of the IS server. The default value of DomainName is FileNetIS. It should be set according to the operational environment. Change this property to the domain name of the IS.

OrganizationName

This is the FileNet IS organization name. The default value of OrganizationName is IBM. It should be changed according to the operational environment.

LoggingLevel

This is an integer representing the amount of log information to be generated. The values are dynamically updatable by using the ISRA Console. The valid values are:

Logging Level	Description
-1	Disables ISRA Logging
0	Only Error and Warning messages will be logged by ISRA
1	Informative messages will also be logged by ISRA
2	Prints debug message in the log

The default value of LoggingLevel is 0. It can be modified to other valid Logging Levels. It is recommended to keep the logging level at 0. LoggingLevel can be increased if user encounters a problem while accessing ISRA through the application.

LoggingMode

This is an integer representing the logging mode. The valid values are:

Logging Mode	Description
0	No Logging
1	Only console logging
2	Only file logging
3	Both console logging and file logging

The default Value of LoggingMode is 3. It can be changed to other valid values according to the operational environment.

PageBufferSize

This is an integer value specified in kilobytes (KB). It specifies the chunk size used by ISRA to transfer page data to and from IS. The default value is 64 KB. Specifying a higher value will require more memory for the Application Server process, and a low PageBufferSize will mean more trips to IS. The value should be set to an average page size on the target IS. The document buffer size on IS and ISRA should match to optimize image transfer performance.

CacheRefreshInterval

This is an integer value specified in minutes. ISRA stores meta-data information like Document class, Indices, menu details etc. in a local cache for faster retrieval. ISRA refreshes the cache information based on the CacheRefreshInterval value. The default value is 30 minutes.

SecurityCacheMode

This parameter can take two values:

Value Setting

- 1 Caches both users and Groups
- 2 Caches only groups

MetaDataCacheRefreshMode

This parameter can have a value in the range of (0-15).

Value Setting

- 0 No Metadata cache refresh
- 1 Printer cache refresh only
- 2 Document class cache refresh only
- 4 Key Fields cache refresh only
- 8 Menu Value cache refresh only
- 15 is the default value for this parameter, which will refresh all metadata.

Add corresponding values to get a combination of data.

For example,	1+2 = 3 Printer and Document class data
	1+2+4 = 7 Printer, Document class, Key Fields data
	0+1+2+4+8 = 15 all data

LogFileName

The LogFileName is a string containing the name and path of the log file. The default value of LogFileName is **ISRA.log**. A complete or relative path can be provided to create the log file at a specific location on the disk.

To ensure that each ISRA instance has a unique log file, the following steps will be followed:

- Configurable property "DeploymentInstance" will be read from ra.xml and appended to the log file name. If not specified, the default value "1" will be used as the deployment instance of ISRA.
- The unique ID used for terminal ID generation in ISRA will be appended to the log file name.

For instance, if the log file name configured in ra.xml is **ISRA.log** and the deployment instance is 1, the modified log file name would be **ISRA_1_0.log**. Here, "0-9 and a-z" is the unique ID^2 generated at run time. This ensures a unique name of the log file for each instance of ISRA.

LogFileSize

This is an integer representing the maximum size of the log file in Megabytes (MB). When the size of the file reaches this maximum limit, the log file is renamed and a new file is created with the same name. For example, **ISRA_1_0.log** is renamed to **ISRA_1_0_1.log**, and a new file **ISRA_1_0.log** is created. The default value of LogFileSize is 5MB. Automatic purging of old ISRA log files has been implemented leaving behind only 5 latest versions.

LdapImpIClassName

It is the name of the Implementation class for LDAP Authentication. This parameter contains the complete path of the LDAP Implementation class to be entered along with the LDAP Implementation Class Name.

The default value is 'com.filenet.is.ra.fnis.FN_IS_IPlanetImpl'

In addition, LDAP implementation has been provided for Microsoft Active Directory Server for Windows 2003 and Novell NDS 8.7.3. The value of the property for LDAP implementation for Active directory is com.filenet.is.ra.fnis.FN_IS_ActiveDirImpl and for Novell NDS 8.7.3 is com.filenet.is.ra.fnis.FN_IS_NovellNDSImpl.

LdapImplClassString

This parameter is a general string that takes in all the LDAP Server specific parameters required for authentication. It takes the following inputs:

• Server Name – Name of the Server/ Machine on which LDAP Server exists.

Note In case that the LDAP server is located on a different subnet, it may be necessary to enter IP address or a full domain name.

- Port Number LDAP Server's port number used for transactions.
- User Path Organization unit under which the users are filed in the LDAP Directory Server.

The three parameters must be separated by semicolon and must appear in the order - server name, port number and user path. An example of LDAPImplClassString is:

• For Active Directory

² The modified log file name would be ISRA_1_<unique-ID>.log. The value for unique ID is 0-9, a-z in ISRA 3.4 FP3 and above. Older versions of ISRA use the unique ID value between 0000-9999.

filenetserver;389;ADS.com

For IPlanet

filenetserver;389;ou=ISRA, dc=odc, dc=filenet, dc=com

• For Novell NDS

filenetserver;389;ou= ISRA, ou=odc,ou=filenet,o=com

InherentLogin

To use LDAP security, the value will be set to 1 from the default value 0.

DeploymentInstance

This is the instance number of ISRA that is being deployed. It is a user defined number between 1 and 100. The default value for this parameter is 1 when none is specified. The maximum is 100, which means that 100 different instances of ISRA can be deployed on a single machine.

Each deployment/JNDI of ISRA on the same Web/Application server requires its own instance number. For example, there can be 2 ISRA applications deployed on the same Web/Application server. Each deployment would require its own instance number and JNDI name. This number is used on the IS server to differentiate between multiple connections from the same IP address of the Web/Application server.

IS always expects unique IDs from ISRA clients, and when it receives duplicate IDs from ISRA, it will reject communication.

So it is always advised to increment the deployment instance number when another instance of ISRA is deployed to achieve its unique id.

Format of the terminal ID is used by ISRA and IS in distinguishing a Unique ISRA instance.

RXXYYYZ@<ip-address>

Where,

XX = 899 + DeploymentInstance(ra.xml) (Converted to Base 36 and used by ISRA)

YYY = Counter that increments with the creation of a new LogonSession object (Values in base 36)

Z = Unique ID generated per ISRA instance. Introduced to support ISRA in clustered environment (Unique ID is a number in Base 36)

<ip-address> = IP Address of the machine where ISRA is deployed

The Unique ID is obtained from the place holder file ISRALock.z (where Z=Unique ID) that is created in the ISRALock folder. Each cluster member creates its own place holder file (like ISRALock.0, ISRALock.1 and so on) within the common ISRALock folder.

PCHLogging

This is a String parameter to enable/disable PCH logging in ISRA. The default value for this is "Disabled". PCHLogging enables user to log performance monitoring data of IS.

AllowAnonymousUser

It's a Boolean value to allow Anonymous user logon through LDAP, when blank password is passed from user/client. The default value of this parameter is "false".

RPCLogging

This is an integer representing the RPC logging level. The valid values are:

RPCLogging	Description
0	No Logging
1	File Logging

The default Value of RPCLogging parameter is 0. It can be changed to 1 if RPC Logging is required.

The RPC LogFileSize is taken as double the size of that of ISRA LogFileSize. So, when the size of the RPC log file reaches its maximum limit (10mb), the log file is renamed, and a new file is created with the same name. For example, ISRA_1_0000_RPC.log is renamed to ISRA_1_0000_RPC_1.log, and a new file ISRA_1_0000_RPC.log is created. Automatic purging of old ISRA RPC log files has been implemented leaving behind only 5 latest versions.

ClientCodepage

This is the code page for encoding Text and Sticky Note annotations. The default value for this property is blank.

On Microsoft Windows platform, the Locale character set is the Windows Code Page (1252 for US English and Western Europe) whereas on a UNIX platform, it is an ISO 8859-X character set (ISO 8859-1 for US English and Western Europe).

Thus, if the client locale character set, is Windows Code Page based (for example: Cp1252 for US English and Western Europe), and the server is UNIX based, then Windows Code Page should be used for encoding the annotations data before committing to the server. This is because; there is an inconsistency in characters mapping between Microsoft Windows Code Pages and the equivalent ISO 8859-X series. For instance, Code page 1252 is built on ISO 8859-1 but uses the range 0x80-0x9F for extra printable characters rather than the C1 control codes used in ISO8859-1.

ISO Encoding	MS Windows counterpart
ISO8859_1	Cp1252
ISO8859_2	Cp1250
ISO8859_5	Cp1251
ISO8859_6	Cp1256
ISO8859_7	Cp1253

For Annotations data, ISRA internally retrieves the IS character set and uses the equivalent Windows Code Pages for the following ISO encodings.

ISO Encoding	MS Windows counterpart
ISO8859_8	Cp1255
ISO8859_9	Cp1254
ISO8859_13	Ср1257

Note Specifying an incorrect code page may lead to inconsistency and/or corruption of Annotations data.

GMTEnabled flag³

This parameter takes two values:

1. true

2. false

The default value of this parameter is false.

Setting "GMTEnabled" to false: When the flag is set to false, it is assumed that the ISRA client application is not "GMT Enabled" i.e. client applications will not do any timezone conversion. ISRA returns the date committed on the IS to client applications after adjusting the difference between the Application Server timezone and the GMT Timezone. As a result, the dates displayed in applications will be in accordance with the dates committed on the IS.

Setting "GMTEnabled" to true: When the flag is set to true, it is assumed that the client application is "GMT Enabled" i.e. client applications will display the dates in GMT. In this case, ISRA returns the date committed on the IS in the GMT timezone, without any adjustment. Set this value to true only if you have made changes to your application after of an upgrade to ISRA 3.3 FP6 or ISRA 3.4 FP2.

ISLocale

This is a String parameter which represents the ISRA Locale. The administrator can set the value of this configurable property as that of the IS locale. It is a lower-case two-letter code as defined by ISO-639. The default value of this parameter is "en" (English locale). The ResourceBundle used in ISRA will depend on the value set by the user for this property.

IgnoreObjectBusyMsgInDocMigration

This is a Boolean parameter which can be set to true to ignore the [77,0,11 The object is busy] error, incase of DocMigration. The default value for this parameter is false.

Configuring 10g-Specific Parameters

Once the configurable properties are set for ISRA, the Application Server-specific parameters can be configured. In case of Oracle 10g server, the properties that can be specified are:

³ GMTEnable flag is available from ISRA 3.4 FP3 and above.

- maxConnections
- minConnections
- scheme
- waitTimeout

To configure the above properties modify the **oc4j-ra.xml** file present in the location <ORACLE_HOME>\j2ee\home\applicationdeployments\default\ISRA\. Set the maxConnections, minConnections, scheme, and waitTimeout

maxConnections

This property represents the maximum number of managed connections that can be created by the ManagedConnectionFactory. After this number is reached, no new connections are created. If no value is specified then the number of connections can grow indefinitely.

minConnections

This parameter represents minimum number of managed connections maintained by the Application Server. If minConnections is greater than 0, the specified number of connections are opened on initialization of OC4J. OC4J may not be able to open the connections, if necessary information is unavailable at initialization time. For instance, if the connection requires a JNDI lookup, it cannot be created because JNDI information is not available until initialization is complete. The default value is 0.

scheme

This property specifies how OC4J handles connection requests after the maximum permitted number of connections is reached. The user must specify one of the following values:

 dynamic: OC4J always creates a new connection and returns it to the application, even if this violates the maximum limit. When these limit-violating connections are closed, they are destroyed instead of being returned to the connection pool.

Note OC4J does not destroy pooled connections upon close of connection unless the pool size is above the maximum limit specified in the maxConnections property.

- fixed: OC4J raises an exception when the application requests a connection and the maximum limit has been reached.
- fixed wait: OC4J blocks the application's connection request until an in-use connection is returned to the pool. If waitTimeout is specified, OC4J throws an exception in case no connection becomes available within the specified time limit.

waitTimeout

This property represents the maximum number of seconds that OC4J waits for an available connection if maxConnections has been exceeded and the fixed_wait scheme is in effect. In all other cases, this property is ignored.

Note If the user makes no waitTimeout specification, the default behavior is not to time out.

Configuring Multiple IS Servers with ISRA

To configure ISRA to access multiple IS servers:

- Deploy a new ISRA instance for each IS that you want to connect. Before deploying the second (and subsequent) ISRA, rename the ISRA.rar file. Observe that the new ISRA will overwrite the previously deployed ISRA configuration settings if the.rar file is not renamed.
- 2. Ensure that the renamed **ISRA.rar** has the rar file extension.
- 3. Configure the new ISRA and enter a DomainName and OrganizationName in **ra.xml** before deployment for connecting to the target IS.

Configuring and Deploying ISRA Console and Sample Application

ISRA Console

The LoadISRA utility from ISRA 3.4.0 has now been replaced with the ISRA Console (in ISRA3.4 fixpack 1 and above). This ISRA console has been developed to show the ra.xml properties in a well formatted table and also features buttons to enable/disable/edit logging levels dynamically.

The dynamic update of logging allows the user to enable and change logging levels while the ISRA is running and without needing to restart the appserver. The console also features links to launch Sample Application and to view JVM statistics.

This console is available as a Web Module (ISRAConsole.war) within ISRAConsole.ear and gets deployed automatically during the deployment of ISRAConsole.ear

Configuring Sample Application

The ISRA console and Sample Application are packaged within a single Enterprise Application Archive File (**ISRAConsole.ear**).

ISRAConsole.ear consists of:

- Two Web modules:
 - o ISRASampleWEB.war (ISRA Sample Application)
 - o ISRAConsole.war (ISRA Console)
- Deployment Descriptor (application.xml)

This chapter illustrates the deployment and configuration of the ISRA Console and Sample Application on Oracle 10g Application Server platform.

Note ISRA product media comes with an IBM FileNet Image Viewer, which can be used to display the TIFF, JPEG, BMP, and other supported file formats on a Java-enabled browser.

This Sample Application is intended solely for illustrative purposes and it should not be expected to perform useful work, or be used for production deployment. This Sample Application is to be used strictly as reference material.

It is assumed that ISRA is deployed and configured for the target IS.

In ISRA3.4 fixpack 1, a new properties file "jndiISRA.properties" has been introduced and it gets created in Application Server home directory. The JNDI names of connection factories mentioned in this properties file, which will be used by Sample application to display on the login page. Two JNDI names "ISCF" and "ISCF1" are mentioned in the file by default. Additional library names can be included by providing comma separated entries. The property file is mandatory and it should contain the same names as the JNDI Binding Paths specified for the configured ISRA ConnectionFactories.

For configuring Sample application, certain properties need to be updated in the web.xml of the **ISRASampleWEB.war**.

Follow the below steps for extracting web.xml from ISRASampleWEB.war.

- 1. Extract ISRASampleWEB.war from ISRAConsole.ear.
- 2. Extract web.xml from ISRASampleWEB.war.
- 4. To enable extended annotation functionality modify the following parameters in **web.xml**:
 - a. Change env-entry-value for "DOCCLASSNAME" to the document class configured in the IS for digital signatures.

<env-entry-value>digDocClass</env-entry-value>

b. Change env-entry-value for "MAXROWS" to the number of records to be fetched from the given document class.

<env-entry-value>200</env-entry-value>

- 5. To enable Remote Printing functionality modify the following parameters in **web.xml**:
 - a. Change env-entry-value for "USEPRINTVIEWOPTION" to either Yes or No. This value will determine whether to honor the print/view preference set in the **web.xml** or to take the value returned by ViewOne. Default value is No.

<env-entry-value>No</env-entry-value>

 b. Change env-entry-value for "PRINTVIEWOPTION" to either View Only =1, Print Only =2, Print/View =3. This value indicates the value of Print/View. The default value is 3.

<env-entry-value>3</env-entry-value>

Note If the PRINTVIEWOPTION is set to 3 (default) then the sticky note would be saved as a normal sticky note. If PRINTVIEWOPTION value is specified as 1 or 2 then the annotations will be saved as an extended annotation (*Extended annotations are non-standard annotations which are saved with a class name parameter (F_CLASSNAME) of "Proprietary", a class id property (CLASS_ID) of {A91E5DF2-6B7B-11D1-B6D7-00609705F027} and a subclass name property (F_SUBCLASS) that describes the annotation).*

The value of PRINTVIEWOPTION would be honored for each sticky note individually, and not for all the sticky notes on a document as a whole.

Thus, the setting for PRINTVIEWOPTION would be processed for either a new annotation being added or an existing annotation being modified.

- 6. Update web.xml in ISRASampleWEB.war.
- 7. Update ISRASampleWEB.war in ISRAConsole.ear.

Deploying ISRA Console and Sample Application

Deployment of the ISRA Console and Sample Application allows testing the connectivity and functionality of the ISRA connector. This step is optional. Developers can review the source code of the ISRA Console and Sample Application to see how certain portions of the ISRA interface are used by the Sample Application. The source code can be found in the following location:

<Drive>:\fnsw\ISRA340\sample\source

To deploy the ISRA Console and Sample Application, perform the following steps:

Graphical Administration

- 1. Launch a Web browser and open the Oracle Enterprise Manager console using the URL as http://localhost:<Port Number>/em in the Address bar.
- 2. Login to the Oracle 10g Application Server console.
- 3. Click Applications tab. The following screen appears:

0	000	http://localho	st:8888/e	em/console/ias/oc4	j/applications					
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4. Click **Deploy**. The following screen appears:

Ele Edit View Fayorites Tools Help Back · O Image: Search Provides	Setue Leas Hela Leasur
Sdress Dhtp://dwiord=38899/em/console/as/j2ee/deploy/deploySelectArchive?command=startWizard8appViewHame=apps	
Application Server Centrol Select Archive Application Attributes Deployment Settings	
Application Server Control Select Archive Application Attributes Deployment Settings	Setua Loas Helo Loaout
Select Archive Application Attributes Deployment Settings	Setup Logs Help Logout
Archive	Cancel Step 1 of 3 Negt
The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB J Modules (RAR files).	JAR files) and Resource Adapter
Orchive is present on local host. Upload the archive to the server where Application Server Control is running.	
Archive Location C:\34FP1\ISRAConsole.ear Browse	
O Archive is already present on the server where Application Server Control is running.	
Location on Server	
The location on server must be the absolute path or the relative path from (Zee/home	
Deployment Plan	
The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment p during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a	
Outomatically create a new deployment plan. The deployment plan settings will be based on DC4J defaults and information contained in the archive	
O Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is run	ining.
Plan Location Browse	
O Deployment plan is already present on server where Application Server Control is running.	
Location on Server	
The location on server must be the absolute path or the relative path from gee/home	
	Cancel Step 1 of 3 Negt
	S Local intranet

- 5. Click **Browse**. Navigate to the **ISRAConsole.ear** file under the ISRA installed directory.
- 6. Click **Next**. The following screen appears:

Oracle Enterneise Hanager (4)	admin) Doplay Application A	ttributes - Microsoft Internet Explorer		
	elp	itt ibutes - Microsoft internet Explorer		
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ddress 🖉 http://chariot4b:8889/em/consc	ole/ias/j2ee/deploy/deployAppAttribute	is		💌 🄁 Go
ORACLE [:] Enterprise Manager 1 Application Server Control	10 <i>g</i>		Help	Logout
	Select Archive	Application Attributes Deployment Settings		
Deploy: Application Attribute	S			
Archive Type J2EE Application Archive Location C:\34FP1\ISRACo Deployment Plan Creating a new p	nsole.ear		(Cancel) (Back) Step 2 of	
* Application Name	ISRA Console			
Parent Application Bind Web Module to Site	default 💌 default-web-site 💌			
Context Root	Web Module	Context Root		
	ISRAConsole.war	ISRAConsole		
	ISRASampleWEB	ISRA		
			(Cancel) (Back Step 2 of	3 Next
Copyright © 1996, 2006, Oracle. All rights res Jracle, JD Edwards, PeopleSoft, and Retek a <u>bhout Oracle Enterprise Manager 10a Apolici</u>	re registered trademarks of Oracle Cor	Help Logout		
			Succel intra	net

7. Enter the Application Name and click Next. The following screen appears:

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	/ias/j2ee/deploy	/deploymentSettings	💌 🄁 Go
RACLE Enterprise Manager 10	g		
iprication Server Control			.oqout
		Select Archive Application Attributes Deployment Settings	
eploy: Deployment Settings		(Cancel) (Back) Step 3 of 3	
Archive Type J2EE Application (E rchive Location C:\34FP1\ISRACons ployment Plan Creating a new pla	sole.ear	Application Name ISRA Console Parent Application default Bind Web Module to Site default.web.site Context Root ISRAConsole.war: ISRAConsole ISRASampleWEB: ISRA	
Deployment Tasks			
The table below provides a set of con enabled.	mmon deployi	ment tasks you might want to perform for this application. Only those tasks that apply to the current applicati	on are
Task Name 0	Go To Task	Description	
Map Environment References	Ø	Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment.	(
Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.	
Map Security Roles	Ø	Map any security roles exposed by your application to existing users and groups. The list of users and group obtained from the security provider you selected for this application.	os is
Configure EJBs	Ø	Configure the Enterprise JavaBeans in your application.	
Configure Clustering	Ø	Configure clustering of your application.	
Configure Class Loading	Ø	Manipulate the classpath of your application.	
Advanced Deployment Plan Ed	diting		
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8. Click **Deploy**. The Confirmation screen appears:

Dracle Enterprise Manager (oc4jadmin) - Confirmation - Microsoft Internet Explorer	_ 0
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ress 🛃 http://chariot4b:8889/em/console/las/j2ee/deploy/deploymentSettings	✓
RACLE [®] Enterprise Manager 10g	
plication Server Control	Help Logout
Confirmation	(
	Return
The Application "ISRA Console" has been successfully deployed.	
Progress Messages	
Togetss wessages TAug 28, 2008 4:56:02 PMI Initializing Servlet: com filenet is ra.sa.servlet.LoginServlet for web application ISRASampleWEB	
Aug 28, 2008 4:56:02 PM Initiatizing Servict comiliance contracts as service. LogOffServict for we application ISRASample/WEB	<u>^</u>
TAU 28, 2008 4:5:02 PMI Initializing Servet: confinements a salestiet ControllerServet for web application ISRASampleWEB	
Aug 20, 2008 4:56:2 PMI initiatizing Server, confinements is as a server GetDocumentContentServer for web application ISACSampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.AddDocServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.UploadServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.UpdateDocumentPropertiesServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.GetAnnotationsServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.SaveAnnotationsServlet for web application ISRASampleWEB	
Aug 28, 2008 4:56:02 PMI Initializing Servlet: com.filenet.is.ra.sa.servlet.UserGroupListServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.InsertUpdateQueueEntryServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servet: com filenet is ra.sa.servet. ChangePasswordServlet for web application ISRASampleWEB	
Aug 20, 2008 4:56:02 PMI Initializing Servet: confidence is a sale environment of a server destruction is RAS ample WEB	
Aug 20, 2008 4:56:02 PMI initiatizing Servet, confinements is a salewet. Create workspaceServet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.PrintFaxDocumentsServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.AddFolderServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.DeleteFolderServlet for web application ISRASampleWEB	=
[Aug 28, 2008 4:56:02 PM] Initializing Servlet: com.filenet.is.ra.sa.servlet.UpdateFolderServlet for web application ISRASampleWEB	
Aug 28, 2008 4:56:02 PM Initializing Servlet: com.filenet.is.ra.sa.servlet.GetDocumentContentServlet2 for web application ISRASampleWEB	
Aug 28, 2008 4:56:02 PM Initializing Servlet: com.filenet.is.ra.sa.servlet.DocumentStatusServlet for web application ISRASampleWEB	
[Aug 28, 2008 4:56:02 PM] Binding web application(s) to site default-web-site ends	
Aug 28, 2008 4:56:02 PMI Application Deployer for ISRA Console COMPLETES, Operation time: 1052 msecs	
Aug 28, 2008 4:56:02 PMJ Application Deployer for ISRA Console COMPLETES. Operation time: 1052 msecs	
Aug 28, 2008 4:56:02 PM] Application Deployer for ISRA Console COMPLETES. Operation time: 1052 msecs	(Return)

9. Click **Return**. The following screen appears:

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					P	age Refreshe	ed Aug 28, 2008	8 4:56:35 PM IS	Т
Home Applications Web Services Per	formanc	e <u>Administratio</u>	<u>n</u>						
(Start) (Stop) (Restart) (Undeploy) (Redeploy)	(Deplo	y)							
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Select All Select None Expand All Collapse All Select Name ○ ▼ All Applications ascontrol ▼ default ISRA Console ○ Middleware Services ♥ The flyou stop a parent application (such as the defaul application. Similarly, if you start a child application	Status V O O	Start Time Aug 18, 2008 3.35:35 PM IST Aug 28, 2008 4.56:02 PM IST ation), then Enterpr prise Manager auto	Requests 0 0 se Manager a matically sta	Processing Time (seconds) 0.00 0.00 automatically	Active EJB Methods 0 0 stops any ch	Defined MBeans	ns that depend t	upon the parent	

10. This completes the deployment of the ISRA Console through graphical administrative interface.

Command Line Administration

1. From the DOS prompt, navigate to the directory where OC4J is installed. For example,

<ORACLE_HOME>\j2ee\home

2. Enter the following command:

```
java -jar admin.jar
ormi://<oc4j_host>:<oc4j_ormi_port> admin <password>
-deploy -file
<drive>:\fnsw\ISRA340\Sample\ISRAConsole.ear -
deploymentName ISRASample
```

This will deploy the ISRA Sample Application.

3. Bind the Sample Application to a Web site by executing the following command:

```
java -jar admin.jar
ormi://<oc4j_host>:<oc4j_ormi_port> admin <password>
-bindWebApp ISRASample ISRASampleWEB default-web-site
/ISRA (For OC4J 10g Version 10.1.3.0.0)
```

java -jar admin.jar ormi://<oc4j_host>:<oc4j_ormi_port admin> <password> -bindWebApp ISRASample ISRASampleWEB http-web-site /ISRA (For OC4J 10g Version 9.0.4.0.0)

This completes the deployment of the Sample Application through command line administrative interface.

Using the ISRA Console

To access the ISRA Console, follow the steps below:

 Go to the location where the application is available (http://<AppServerName>: <AppServerPort>/<ApplicationContextRoot>)ApplicationContextRoot is ISRAConsole.

For example : http://9.126.94.39:9088/ISRAConsole/

😻 ISRA Administration - Mozilla Firefox: IBM Edition	
Elle Edit View History Bookmarks Tools Help	*
👍 • 🔿 • 🧭 💿 🏠 🗈 http://9.126.94.64:9080/ISRAConsole/	V Doogle
🕒 IBM Business Transfo 📄 IBM Standard Softwa 📄 IT Help Central 🗇 Join World Communit 🚞 IBM	
ISRA Administration Console	<u>^</u>
JNDI Name: Submit ISCF ISCF1	
The ISRA Administration console supports IBM Filenet Image Services Resource Adapter 3.4 F (c) 2008 IBM Corporation	x Pack 1 and above.

2. Enter the JNDI name of the library and click **Submit**.

A page showing the current values configured in the ra.xml is shown along with controls to edit the ISRA logging levels.

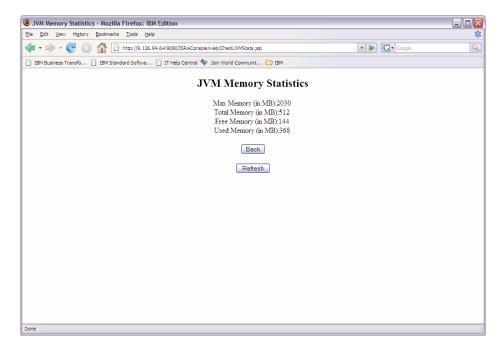
A link has been provided on the page, to access the ISRA Sample Application.

Higtory Bookmarks Tools Help		
🚰 🛞 🏠 🗋 http://9.126.94.64:90	80/ISRAConsole/DisplayRAServlet	▼ ► Google
ansfo 🗋 IBM Standard Softwa 🗎 IT I	Help Central 🧇 Join World Communit 🚞 I	BM
IS	RA Administratio	on Console
Set ISRA Logging	ISRA Release	Version : ISRA 3.4 Fix Pack 1
○ No Logging ○ Warning and Exceptions Logging	ISCF: Custom	Properties defined in ra.xml
● Information Logging ○ Debug Logging	Custom Property	Value
o Beorg Bossing	IS Domain Name	velocity3
Enable RPC Logging	IS Organisation Name:	IBM
	Product Name	IBM FileNet Image Services Resource Adapter
Change Logging Level	Product Version	ISRA 3.4.0.1 Enterprise
	Cache Refesh Interval (in minutes):	30
	Deployment Instance:	1
View JVM Statistics	Client Code Page:	Cp1252
	Char Set Encoding:	ISO8859_1
	Page Buffer Size (Bytes):	65536
ISRA Sample Application	Log File Name:	ISRA_1_0008.log
	RPC Log File Name:	ISRA_1_0008_RPC.log
	RPC Logging Mode:	0
Main Page	Logging Level:	

Changes to the logging level settings are applied to ISRA with immediate effect. The changes to logging levels are updated in the properties displayed on the screen.

The changes are valid till the application server is recycled. When the application server is restarted the log level settings specified in the ra.xml are used.

3. The JVM statistics can be used to study the memory usage in the Application Server JVM.



Deploying IBM FileNet Image Viewer

This section describes how to deploy the IBM FileNet Image Viewer. This viewer is used by the ISRA Console and Sample Application to display documents of specific mime types (TIFF, JPEG and BMP). Skip this section, if you do not want the IBM FileNet Image Viewer configured with the ISRA Sample Application.

To deploy IBM FileNet Image Viewer:

Graphical Administration

- Launch a Web browser and open the Oracle Enterprise Manager console using the URL as http://localhost:<Port Number>/em in the Address bar.
- 2. Login to the Oracle 10g Application Server console.
- 3. Click Applications tab. The following screen appears:

🔊 Oracle Enterprise Manager (oc4jadmin) - OC43: h						
Eile Edit View Go Bookmarks Tools Window He	slp					
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🔺 / 🖽 🖌 Mome My Netscape 🔍 Search 🛇 O	ustomize					
Netscape - Enter Search Terms	🔽 🔍 Search 🖋 Hig	hlight 🚺 💇 Po	p-Ups Blocked:	0 🥜 For	m Fill 👻 🦪 Cl	ear Browser History 📆 News
🥺 New Tab 🛛 🛇 Oracle Enterprise Manager (oc4jadmin) -	0					(
ORACLE Enterprise Manager 10g						Setup Logs Help Logout
OC4J: home						
			Pac	e Refreshe	d Feb 18, 20	06 12:32:39 PM GMT+05:30
Home Applications Web Services	Performance Ad	ministration				
Instance. View Applications Start) Stop Undeploy Redeploy Expand All Collapse All					(Deploy)	
Select Name	Status Start Time	Active Requests	Request Processing Time (seconds)	Active / EJB Methods	Application Defined MBeans	
		0	0.00	0	2	
C ascontrol		1	0.00	0	1	
Home Applications Web Services	Performance Ad	ministration				
	Setup Logs	s <u>Help</u> L	ogout			
Copyright @ 1996, 2005, Oracle. All rights reserved.					1	-11- 🕶 🛋

4. Click **Deploy**. The following screen appears:

Cancel Step 1 of 3 Nex Select Archive Application Attributes Deployment Settings eploy: Select Archive Cancel Step 1 of 3 Nex Cancel Step 1		(oc4jadmin) - Deploy: Select Archive - Microsoft Internet Explorer	
usificial Select a city Search By Company/Name Citer Your Search Go. Extout Let Note Search Go. Company/Name Citer Your Search Go. Extout Let Note Search Citer Your Your Your Your Your Your Your You	ile Edit View Favorites Ioo	ols Help	
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			Cancel Stop 1 of 3 Nevt

- 5. Click **Browse**. Navigate to the **FNImageViewer.ear** file under the ISRA installed directory.
- 6. Click **Next**. The following screen appears:

😰 Oracle Enterprise Manager (oc4jadmin) - Deploy: Application Attributes - Netscape	
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http://localhost:8888/em/console/las/j2ee/deploy/deployAppAttributes	
🔺 🖉 🖬 Home 🌆 Netscape 🔍 Search 🛇 Customize	
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ORACLE Enterprise Manager 10g Application Server Control	<u>Setup Loas Help Logout</u>
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Copyright @ 1996, 2005, Oracle. All rights reserved.	Cancel Back Step 2 of 3 Neg
왕 교 & 연' 🗋 Done	-11- 21 - 21 - 21 - 21 - 21 - 21 - 21 -

7. Enter the Application Name and click Next. The following screen appears:

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static Search By Company/Name ♥ Enter Your Search ♥ Go Eat out May Hotels Movies Comple Search ♥ Go Peter States Complex Search By Company/Name ♥ Enter Your Search ♥ Go Peter Peter States Complex Search By Complex Search ♥ Go Peter Peter Complex Search ♥ Go Peter Select Archive Application Select Archive Application Enter Your Search V Q Peter Select Archive Application Archive Type Select Archive Application May Security Peter	e <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	Help		-
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	Configure Class Loading		Manipulate the classpath of your application.	
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8. Click **Deploy**. The Confirmation screen appears:

Oracle Enterprise Manager (oc4jadmin) - Confirmation - Microsoft Internet Explorer Je Edit Vjew Favorites Icols Help	احا
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ust dial Select a dity 🕑 Search By Company/Name 🖤 Enter Your Search 🖤 😡 🥪 Eat out 🙀 Hotels 🙀 Movies 🕻 Google Search 💌 Go	? H
dress 🛃 http://dhariot4b:8889/em/console/ias/j2ee/deploy/deploymentSettings	~
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pplication Server Control Het	Logout
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	Return
The Application "FNImageViewer" has been successfully deployed.	
Progress Messages	
[Aug 28, 2008 4:59:38 PM] Application Deployer for FNImageViewer STARTS.	~
[Aug 28, 2008 4:59:38 PM] Copy the archive to /home/oracle/product/10.1.3.1/OracleAS_1/j2ee/oc4j/applications/FNImageViewer.ear	
[Aug 28, 2008 4:59:38 PM] Initialize /home/oracle/product/10.1.3.1/OracleAS_1/j2ee/oc4j/applications/FNImageViewer.ear begins	
[Aug 28, 2008 4:59:38 PM] Unpacking FNImageViewer.ear	
Aug 28, 2008 4:59:39 PMI Done unpacking FNImageViewer.ear	
Aug 28, 2008 4:59:39 PMI Unpacking FNImageViewer.war	
Aug 28, 2008 4:59:40 PMI Done unpacking FNImageViewer war	
Aug 28, 2008 4:59:40 PM Initialize /home/oracle/product/10.1.3.1/OracleAS 1/j2ee/oc4j/applications/FNImageViewer.ear ends	
[Aug 26, 2008 4:59:40 PM] Starting application : FNImageViewer	
[Aug 28, 2008 4:53-40 PM] Initializing ClassLoader(s)	
[Aug 28, 2008 4:59:40 PM] Initializing EJB container	=
[Aug 28, 2008 4:59:40 PM] Loading connector(s)	-
[Aug 28, 2008 4:59:40 PM] Starting up resource adapters	
[Aug 28, 2008 4:59:40 PM] Initializing EJB sessions	
[Aug 28, 2008 4:59:40 PM] Committing ClassLoader(s)	
Aug 28, 2008 4:59:40 PM] Initialize FNImageViewer begins	
Aug 28, 2008 4:59:40 PMI Initialize FNImageViewer ends	
Aug 28, 2008 4:59:40 PMI Started application : FNImageViewer	
[Aug 26, 2008 4:53-56 Fm] Gtarted application () to site default-web-site begins	
[Aug 28, 2008 4:59:41 PM] Binding FNImageViewer web-module for application FNImageViewer to site default-web-site under context root FNImageViewer to a site default-web-site index for the site of th	
[Aug 28, 2008 4:59:41 PM] Binding web application(s) to site default-web-site ends	
	~
[Aug 28, 2008 4:59:41 PM] Binding web application(s) to site default-web-site ends	Return

9. Click **Return**. The following screen appears:

🕲 Oracle Enterprise Manager (oc4jadmin) - 0C43: ho	ome - Ne	tscape			C		
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This page shows the J2EE applications and applic instance.	ation co	omponents (EJB	Modules, W	AR Modules	, Resource	Adapter Moo	dules) deployed to this OC4J
View Applications						Deploy	
Start Stop Undeploy Redeploy							
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10. This completes the deployment of IBM FileNet Image Viewer through graphical administrative interface.

Command Line Administration

- 1. From the DOS prompt, navigate to the directory where OC4J is installed. For example,
 - <ORACLE_HOME>\j2ee\home
- 2. Enter the following command:

java -jar admin.jar ormi://<oc4j_host>:<oc4j_ormi_port> admin <password> -deploy -file <drive>:\fnsw\ISRA340\Sample\FNImageViewer.ear deploymentName FNImageViewer

This will deploy the ISRA Sample Application.

3. Bind the Sample Application to a Web site by executing the following command:

```
java -jar admin.jar
ormi://<oc4j_host>:<oc4j_ormi_port> admin <password>
-bindWebApp FNImageViewer FNImageViewer default-Web-
site /FNImageViewer (For OC4J 10g Version 10.1.3.0.0)
java -jar admin.jar
ormi://<oc4j_host>:<oc4j_ormi_port> admin <password>
-bindWebApp FNImageViewer FNImageViewer http-Web-site
/FNImageViewer (For OC4J 10g Version 9.0.4.0.0)
```

This completes the deployment of IBM FileNet Image Viewer through command line administrative interface.

IBM FileNet Image Viewer Quick Start Feature

The Quick Start feature provides a mechanism for initializing a Web browser, Java, and Image Viewer session. The background task required to initialize an Image Viewer session is done at the time when the Web browser is initialized, prior to the time when Image Viewer is actually required. This reduces the startup time of Image Viewer. This feature is supported on various Operating Systems, such as Microsoft Windows 98, NT, 2000 Professional, and XP. The only Web browser supported for this feature is Internet Explorer. The Quick Start feature is not enabled by default, user needs to manually enable it.

Enabling Quick Start Feature

To enable Quick Start feature:

- 1. Extract FNImageViewer.ear from the patch.
- 2. Check the availability of "quickstart.htm" file in the **FNImageViewer.war** extracted from **FNImageViewer.ear**.
- 3. Extract ISRAConsole.ear from the patch.
- 4. Extract ISRASampleWEB.war file from ISRAConsole.ear.
- 5. Extract 'DisplayDocument.jsp' file from ISRASampleWEB.war.
- 6. Add the highlighted tag to the file as shown in the code segment below:

```
<APPLET CODEBASE = "/FNImageViewer/FNJavaVlFiles" ARCHIVE
="ji.jar"
CODE = "ji.applet.jiApplet.class" NAME = " viewONE" WIDTH =
"100%"
HEIGHT = "97%" HSPACE = 0 VSPACE = 0 ALIGN = middle
MAYSCRIPT="true">
-- ---
<%if(RAVersion2.equalsIgnoreCase("Enterprise")){%>
```

```
-- -- --
<param name="UserId" value="<%=userId%>">
<param name="quickstartURL" value="quickstart.htm">
<%}/*End of if condition where
RAVersion2.equalsIgnoreCase("Enterprise")*/%>
</Applet>
```

- 7. Save and close the file.
- 8. Bundle the new file into **ISRASampleWEB.war**.
- 9. Bundle the WAR file into ISRAConsole.ear.
- 10. Undeploy the old **ISRAConsole.ear**.
- 11. Deploy the new **ISRAConsole.ear**.
- 12. Open a document in IBM FileNet Image Viewer.
- 13. Right-click the document to open the context menu.
- 14. From the context menu, click **Preferences > QuickStart** to enable the Quick Start feature. A 'tick' icon appears on the left-hand side of the Quick Start menu indicating that the feature is enabled.

Enabling the Quick Start feature will add an icon within the System tray (bottom right of the Windows Desktop) and a menu item "IBM FileNet JavaView QuickStart for Internet Explorer" under Start > Programs > Startup menu. After enabling Quick Start, if the machine is rebooted, the Quick Start feature remains enabled. Disabling the Quick Start feature will remove the Quick Start icon from the System tray and the menu item "IBM FileNet JavaView QuickStart for Internet Explorer" from the Start > Programs > Startup menu.

Known Issues in the Quick Start Feature

Following are the known issues in IBM FileNet Image Viewer:

- Web session will not end until Quick Start feature is disabled or the user explicitly logs out of the session with the Web server. If the Quick Start feature is enabled, closing the browser window(s) will not terminate the session with the Web server.
- If Quick Start is enabled and Internet Explorer is not the default browser, then on machine re-login or reboot, a message will display asking whether you want to make Internet Explorer the default browser. To avoid the message:
 - 1. Open a browser window.
 - 2. Select **Tools > Internet Options**.
 - 3. Click **Programs** tab and deselect the check box corresponding to "Internet Explorer should check to see whether it is the default browser".
 - 4. Click **Apply**.
 - 5. Click **OK**.
- If Always button is not selected on the security dialog box of the security certificate associated with the Image Viewer, then on machine re-login or reboot, a security dialog box is displayed.
- QuickStart feature is not available in Image Viewer when we access web server using IP address instead of host name in the URL.

Testing Sample Application

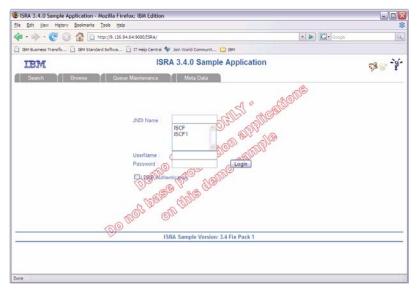
After the ISRA Sample Application is started, the steps to verify the deployment and access the ISRA Sample Application are:

1. Open a Web browser and enter the URL

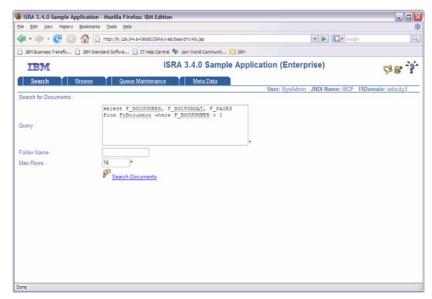
http://<server:port>/context_root.

For example: http://9.126.94.39:9088/ISRA/

The Web application context_root is case sensitive. On an Oracle 10g Server, the default port number is 8888. The default context_root of the Sample Application is ISRA.



2. Enter valid user name and password for the configured IS (check configured ConnectionFactory for IS details) and click **Logon**.



3. Click the **Help (?)** icon on the Sample Application page for details on the interaction parameters and options.

LDAP Configuration

ISRA 3.4.0 supports LDAP Authentication by third party Servers in addition to direct IS logging.

It is necessary to map users present on the LDAP Server onto the IS, before using LDAP Authentication.

Note The installation of LDAP Server and creation of users on the LDAP machine are out of the scope of this document.

IBM FileNet provides utilities for mapping users existing in the LDAP Server onto the IS. These utilities are part of the IS package and are to be executed on the machines running the LDAP Server and the IS.

IBM FileNet provides two utilities – Idap_export and Idap_import. The Idap_export utility is used to export names of the users on the LDAP Server onto an xml file.

The ldap_import utility imports the names of the users that have been mapped onto the xml file and creates corresponding users on the IS. It is mandatory that the ldap_import algorithm as well as the xml file be present on the same machines where IS exists.

The ldap_import algorithm uses a hashing algorithm to generate the user passwords for the IS.

Mapping Existing LDAP Server Users to IS

To configure user IDs in an IBM FileNet IS library:

- 1. Create user entries on the LDAP server. The user attribute "uid" will be used to create a user on IS. The rest of the attributes (including "password") can be assigned any value.
- 2. Use the LDAP_EXP.exe utility to export the user entries created into an XML file.
- 3. LDAP_EXP program has the following parameters options:

Option	Description
s <server></server>	LDAP server name or IP address, required value.
p <port></port>	LDAP port number, optional value, 389 is default.
d <binddn></binddn>	LDAP administrator bind domain name (DN), required value.
w <bindpw></bindpw>	LDAP administrator bind password, required value.

Option	Description
b <basedn></basedn>	LDAP Base DN, optional value.
g <grouplist filename=""></grouplist>	Group list file for input, optional value.
o <xml output<br="">filename></xml>	XML output filename, optional value.
l <log filename=""></log>	Log Filename to use, optional value.
x <grouplist filename=""></grouplist>	Group list file name for output, optional value.
v	Verbose log output.
c1 <user class="" object=""></user>	Class type for User, default is 'person'.
c2 <group class="" object=""></group>	Class type for Group, default is 'groupofuniquenames'.
a1 <user attribute=""></user>	Attribute to be used for user; default is 'dn'.
a2 <group attribute=""></group>	Attribute to be used for group; default is 'dn'
a3 <member attribute=""></member>	Attribute to be used for member; default is 'uniqueMember'.

Note User may use /?, -?, /h or -h to generate help.

Usage of exporting users from LDAP server into the XML file:

```
C:\>ldap_exp.exe -s filenetsrv -b "dc=cm, dc=filenet,
dc=com" -d "admin" -w ""
```

4. Use the LDAP_IMPORT.exe for IS libraries to import the user entries from XML file into the specified IBM FileNet IS library.

Parameters:

/?	Help screen.
/h <host>[:organization]</host>	IS host or domain name, organization.
/u <id> (used with /p)</id>	Authorized IS user name
/p" <pwd>" (used with /u)</pwd>	Encrypted IS user password.
/i <file></file>	XML input file.

Example Usage

C:\>ldap_import/hIMGSERV:FileNet/ildap_exp.xml

Note Options are not case sensitive. All the information or error messages are logged to the system log or the file 'ldap_importyyyymmddlog.txt'.

5. The IBM FileNet users thus created will have a password that is generated from the corresponding user IDs.

Changing ISRA Specific Parameters for LDAP

The configurable properties to be set (modified) in **ra.xml** are:

- LdapImplClassName
- LdapImplClassString
- InherentLogin

Refer to <u>LdapImplClassName</u>, <u>LdapImplClassString</u>, and <u>InherentLogin</u>, in section <u>Configurable ra.xml Properties</u> for details on the configuration of the respective properties.

4

Undeployment

This section describes the undeployment procedure to remove the ISRA and the Sample Application from the Oracle 10g Application Server.

Undeploying ISRA

To undeploy the ISRA, perform the following steps:

Graphical Administration

To undeploy ISRA using the Oracle 10g Application Server Console:

- Launch a Web browser and open the Oracle Enterprise Manager console using the URL as http://localhost:<Port Number>/em in the Address bar.
- 2. Login to the Oracle 10g Application Server console.
- 3. Click Applications tab.
- 4. Select **Standalone Resource Adapters** value from the **View** drop down box. The following screen appears:

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Copyright @1996, 2005, Oracle. All rights reserved.			
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5. Select ISRA and click **Stop** to stop the ISRA resource adapter. The following message appears:

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ORACLE Enterprise Manager 10g	<u>Setup</u> Logo <u>Help Logout</u>
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Are you sure you want to stop ISRA?	
	No Yes
Copyright © 1996, 2005, Oracle, All rights reserved.	Logout
	•

6. Click **Yes.** The following screen appears:

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Confirmation		
ISRA has been stopped.		
OC4J: home		- 1
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Home Applications Web Services Performance Administration		
This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this	OC4J instance.	
View Standalone Resource Adapters -		
(Start) (Stop) (Undeploy) Redeploy) (Deploy)		
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7. Click **Undeploy**. The following message appears

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You have chosen to remove Resource Adapter "RA1".			
Do you want to proceed?			
		(No) (Yes)
Copyright © 1996, 2005, Cracle. All rights reserved.			100
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8. Click **Yes**. The Confirmation screen appears:

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Application Server Control	Setup Logs H	elp Logout
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The Resource Adapter "RA1" has been successfully undeployed.		
[Feb 22, 2006 2:07:54 PM] Connector Module UnDeployer for RA1 STARTS. [Feb 22, 2006 2:07:55 PM] Unable to remove RA under connectors directory (in use). Please remove manually after shutdown. [Feb 22, 2006 2:07:55 PM] Connector Module UnDeployer for RA1 COMPLETES. WARNING: Requires default application restart for o	hanges to take ef	ect.
		Return
Setup Logs <u>Help</u> Logout Copyright © 1996, 2005, Oracle. All rights reserved.		
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9. Click **Return** to verify that the selected ISRA application is undeployed.

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OC4J: home	
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Home Applications Web Services Performance Administration	
This page shows the J2EE applications and application components (EJB Modules, WAR Modules, Resource Adapter Modules) deployed to this OC4.	J instance.
View Standalone Resource Adapters	
Deploy	
Start Stop Undeploy Redeploy	
Select Resource Adapter △ Resource Adapter Module Status EIS Type	
OracleASjms OracleASjms OracleAS JMS	
Home Applications Web Services Performance Administration	
Copyright © 1996, 2005, Oreole. All rights reserved.	
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10. This completes the undeployment of ISRA resource adapter through graphical administrative interface.

Command Line Administration

To remove a deployed resource adapter, use the **-undeployconnector** switch of **admin.jar**. The syntax is:

1. From the DOS prompt, navigate to the directory where OC4J is installed. For example,

<ORACLE_HOME>\j2ee\home

2. Then enter the following command:

java -jar admin.jar ormi://<oc4j_host>:<oc4j_ormi_port> admin adminpassword -undeployconnector -name ISRA

The required -name argument specifies which adapter is being removed. This command removes all <connector> entries that use the specified resource adapter from **oc4j-connectors.xml** and deletes the ISRA directory from <ORACLE_HOME>\j2ee\home\connectors directory.

User can remove an adapter manually by deleting all <connector> entries that refer to the adapter from oc4j-connectors.xml and deleting the ISRA directory from <ORACLE_HOME>\j2ee\home\connectors directory.

Undeploying ISRA Console and Sample Application

To undeploy the ISRA Console and Sample Application and IBM FileNet Image Viewer, perform the following steps:

Graphical Administration

To undeploy ISRA Console and Sample application and IBM FileNet Image Viewer using the Oracle 10g Application Server Console,

- 1. Click **Applications** tab.
- 2. Select **Application** value from the **View** dropdown box. The following screen appears:

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This page shows the J2EE applications and application \ensuremath{c}	ompone	nts (EJB Modules,	WAR Module	es, Resource	Adapter Mod	ules) deploye	ed to this OC4J instance.	
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TIP If you stop a parent application (such as the defau	It applic	ation), then Enterpr	ise Manager	automatically	stops any c	hild applicatio	ns that depend upon the	parent
application. Similarly, if you start a child application								
Home Applications Web Services Per	rformanc	e Administratio	in					~
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3. Select the **ISRA Console** and click **Stop** to stop the selected application. The following message appears:

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Address 🙆 http://chariot4b:8889/em/console/ias/oc4j/applications	🛩 🋃 G
ORACLE Enterprise Manager 10g	
Application Server Control	Setup Logs Help Logout
良 Confirmation	
Are you sure you want to stop the following applications: ISRA Console?	
	(No) (Yes)
Copyright © 1996, 2006, Oracle, All rights reserved.	
Jracie. JD Edwards, PeopleSoft, and Retek are registered trademarks of Oracle Corporation and/or its affliates. Other names may be trademarks of their respective o boout Oracle Enterprise Manager 10g Application Server Control	
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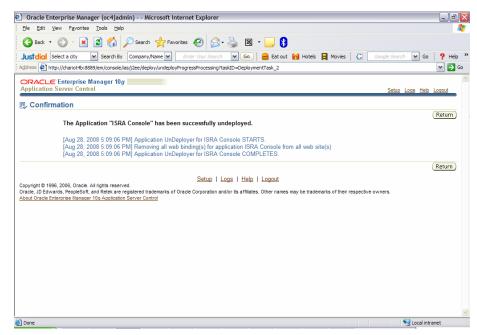
4. Click Yes. The following screen appears:

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(TID)	f you stop a parent application (such as the application. Similarly, if you start a child app							ins that depend t	upon the p	barer	nt
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5. Click **Undeploy**. The following message appears:

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ddress 🛃 http://dhariot4b:8889/em/console/ias/j2ee/deploy/undeployConfirmation?applicationId=ISRA%20Console		<u>~</u> 🔁
DRACLE Enterprise Manager 10g	<u>Setup Logs Help L</u>	oqout
Ŋ Undeploy Application		
	NO	Yes
You have chosen to remove J2EE application "ISRA Console".		
Do you want to proceed?		
	(No)	Yes
Setup Loga Help Logout opyright © 1996, 2006, Oracle. All rights reserved. racle, JD Edwards, PeopleSoft, and Retex are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respect bout Oracle Enterprise Manager 10g Application Server Control	ve owners.	
	📢 Local intran	-

6. Click **Yes**. The Confirmation screen appears:



7. Click **Return** to verify that the selected ISRA Console and Sample application is undeployed.

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8. This completes the undeployment of ISRA Console and Sample application through graphical administrative interface.

Command Line Administration

User can remove a J2EE Web application from the OC4J Web server using the undeploy option with the admin.jar command-line tool. The syntax is as follows:

1. From the DOS prompt, navigate to the directory where OC4J is installed. For example,

<ORACLE_HOME>\j2ee\home

2. Then enter the following command:

java -jar admin.jar ormi://<oc4j_host>:<oc4j_ormi_port> admin adminpassword -undeploy ISRASample -keepFiles

This command removes the deployed J2EE application known as applicationName and results in the following:

- The application is removed from the OC4J runtime.
- All bindings for the Web modules are removed from all the Web sites to which the Web modules were bound.
- The application files are removed from both the applications/ and application-deployments directories. If you do not want these files to be removed, use the -keepFiles switch.

Undeploying IBM FileNet Image Viewer

The procedure of undeploying IBM FileNet Image Viewer is same as Undeploying ISRA Console and Sample Application. Refer to <u>Undeploying</u> <u>Console and Sample Application</u> section for the details.

Troubleshooting

This section describes how to troubleshoot ISRA.

Disabling NCH Broadcasts

ISRA users (application client) need to access IS libraries across routers on networks where broadcasts are disabled. This is done by creating alias entries for the IS libraries in the hosts file, where ISRA is deployed. ISRA must locate the IP address of the NCH server to find other IS services for an IS setup.

ISRA attempts to find the NCH server by generating broadcast packets, even if the NCH server was not reachable using broadcasts. User can disable NCH server location broadcasts to reduce broadcast traffic on the network.

User may want to disable NCH broadcasts, if:

- Routers are present in between servers,
- Want no broadcast activity on the networks,
- Want to force a multi-homed server to use a specific IP address configured by the operating system network directory search facility.

To specify the alias in the hosts file:

- Locate hosts file on the server. It is located in the /etc folder on UNIX systems. On a Microsoft Windows Server, it is located in the \system32\drivers\etc under the Windows installation directory.
- 2. Open the hosts file with a preferred text editor. If a host file does not exist, create a new file using a preferred text editor.
- 3. For each IBM FileNet library that user needs to connect through ISRA, entries should be made in the hosts file as <IP address of domain:organization> <domain-organization>-nch-server, where:
 - <IP address of domain:organization> is IP address of an IBM FileNet domain and organization identifying the target IBM FileNet library system (NCH Server).
 - <domain-organization> is domain and organization name. The rules to follow while specifying the domain-organization name are:
 - Delete all characters except ASCII alphanumeric characters and hyphens.
 - Convert all upper case characters to lower case.
 - Insert a hyphen between the domain and organization names.
 - Append nch-server as a literal.

For example, if an IBM FileNet library has a domain, fn_is, and organization, IBM, and its IP address is 123.45.6.78, the hosts file entry will be:

123.45.6.78 fnis-IBM-nch-server

Appendix A: ra.xml

ra.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE connector PUBLIC '-//Sun Microsystems, Inc.//DTD Connector
1.0//EN' 'http://java.sun.com/dtd/connector_1_0.dtd'>
<connector>
  <display-name>ISRA</display-name>
  <vendor-name>IBM</vendor-name>
  <spec-version>1.0</spec-version>
  <eis-type>IBM FileNet Image Services</eis-type>
  <version>3.4.0</version>
  cense>
    <license-required>false</license-required>
  </license>
  <resourceadapter>
    <managedconnectionfactory-
class>com.filenet.is.ra.spi.FN_IS_SpiManagedConnectionFactory</managedc
onnectionfactory-class>
    <connectionfactory-
interface>javax.resource.cci.ConnectionFactory</connectionfactory-
interface>
    <connectionfactory-impl-
class>com.filenet.is.ra.cci.FN_IS_CciConnectionFactory</connectionfacto
ry-impl-class>
    <connection-interface>javax.resource.cci.Connection</connection-
interface>
    <connection-impl-
class>com.filenet.is.ra.cci.FN_IS_CciConnection</connection-impl-class>
    <transaction-support>NoTransaction</transaction-support>
    <config-property>
      <description>Domain name of the Image Services
Server</description>
      <config-property-name>DomainName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>FileNetIS</config-property-value>
    </config-property>
    <config-property>
      <description>Organization name of the Image Services
Server</description>
      <config-property-name>OrganizationName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>IBM</config-property-value>
    </config-property>
    <config-property>
      <description>0-Exceptions and Warnings; 1-Info; 2-Debug
Level</description>
      <config-property-name>LoggingLevel</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>0</config-property-value>
```

```
</config-property>
    <config-property>
      <description>0-No Logging; 1-Console Logging; 2-File Logging; 3-
Both(File and console) </description>
      <config-property-name>LoggingMode</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>3</config-property-value>
    </config-property>
    <config-property>
      <description>Page data fetch size (in kilo bytes)</description>
      <config-property-name>PageBufferSize</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>64</config-property-value>
    </config-property>
    <config-property>
      <description>Cache refresh interval(in minutes)</description>
      <config-property-name>CacheRefreshInterval</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>30</config-property-value>
    </config-property>
    <config-property>
      <description>Security cache mode(1-caches users and groups 2-
caches groups only)</description>
      <config-property-name>SecurityCacheMode</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>1</config-property-value>
    </config-property>
    <config-property>
      <description>Selective metadata refresh(1-printer cache 2-doc
class cache 4-key fields cache 8-menu values cache )</description>
      <config-property-name>MetaDataCacheRefreshMode</config-property-
name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>15</config-property-value>
    </config-property>
    <config-property>
      <description>Name of the Product</description>
      <config-property-name>ProductName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>IBM FileNet Image Services Resource
Adapter</config-property-value>
    </config-property>
    <config-property>
      <description>Product Version</description>
      <config-property-name>ProductVersion</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>ISRA 3.4.0 Enterprise</config-property-</pre>
value>
    </config-property>
    <config-property>
      <description>ISRA Logfile name (can include path) </description>
      <config-property-name>LogFileName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
```

```
<config-property-value>ISRA.log</config-property-value>
    </config-property>
    <config-property>
       <description>Maximum Size of ISRA LogFile (in mega
bytes)</description>
        <config-property-name>LogFileSize</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>5</config-property-value>
    </config-property>
      <config-property>
               <description>LDAP Authentication Class
Name</description>
           <config-property-name>LdapImplClassName</config-property-
name>
           <config-property-type>java.lang.String</config-property-
type>
           <config-property-
value>com.filenet.is.ra.fnis.FN_IS_IPlanetImpl</config-property-value>
    </config-property>
    <config-property>
               <description>Server details for LDAP Authentication
</description>
           <config-property-name>LdapImplClassString</config-property-
name>
           <config-property-type>java.lang.String</config-property-
type>
           <config-property-
value>filenetserver;389;ou=Users,ou=FileNet,dc=FilenetRoot</config-
property-value>
    </config-property>
    <config-property>
               <description>Inherently login through LDAP
authentication or not 0-Direct IS Login;1-LDAP
Authentication</description>
         <config-property-name>InherentLogin</config-property-name>
         <config-property-type>java.lang.Integer</config-property-type>
         <config-property-value>0</config-property-value>
    </config-property>
    <config-property>
       <description>ISRA instance that is currently being deployed on a
single machine; Min Value = 1, Max Value = 10</description>
        <config-property-name>DeploymentInstance</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>1</config-property-value>
    </config-property>
   <config-property>
      <description>Parameter to enable PCH Logging in ISRA
</description>
      <config-property-name>PCHLogging</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>Disabled</config-property-value>
   </config-property>
   <config-property>
         <description>LDAP Anonymous user login flag</description>
         <config-property-name>AllowAnonymousUser</config-property-
name>
         <config-property-type>java.lang.Boolean</config-property-type>
```

```
<config-property-value>true</config-property-value>
 </config-property>
 <config-property>
      <description>0-No Logging; 1-File Logging</description>
      <config-property-name>RPCLogging</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>0</config-property-value>
    </config-property>
 <config-property>
      <description>Codepage for ISRA</description>
      <config-property-name>ClientCodepage</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>cp1250</config-property-value>
 </config-property>
 <config-property>
      <description>Locale of the Image Services Server (two letter ISO
language code, for example en, de, ar, ja)</description>
      <config-property-name>ISLocale</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>en</config-property-value>
  </config-property>
  <config-property>
   <description>It is a configurable parameter to Ignore [77,0,11 The
object is busy] error, incase of DocMigration</description>
   <config-property-name>IgnoreObjectBusyMsgInDocMigration</config-
property-name>
   <config-property-type>java.lang.Boolean</config-property-type>
   <config-property-value>false</config-property-value>
 </config-property>
    <authentication-mechanism>
      <authentication-mechanism-type>BasicPassword</authentication-
mechanism-type>
      <credential-
interface>javax.resource.security.PasswordCredential</credential-
interface>
    </authentication-mechanism>
    <reauthentication-support>false</reauthentication-support>
  </resourceadapter>
</connector>
```

oc4j-ra.xml

	<pre><config-property name="cacheRefreshInterval" value="30"></config-property> <config-property)<="" name="productName" pre="" value="IBM FileNet"></config-property></pre>
Image	
	Services Resource Adapter"/>
	<config-property name="productVersion" value="ISRA3.4.0</td></tr><tr><td></td><td>Enterprise"></config-property>
	<config-property name="logFileName" value="ISRA.log"></config-property>
	<config-property name="logFileSize" value="5"></config-property>
	nector-factory>
<td>ector-factories></td>	ector-factories>

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