

Image Services Resource Adapter

Deployment Guide

For Oracle 10g Application Server

Release 3.4 Fixpack 3

April 2009

© Copyright International Business Machines Corporation 1984, 2009. All rights reserved.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

1

Contents

About This Manual 7

Conventions Used in the Document 7 Related References 7 Comments and Suggestions 7

1. ISRA Deployment 8

Deployment Requirements 8

Hardware Requirements 8 Software Requirements 8 Mandatory Requirements for ISRA 8 Deploying ISRA 9

Deploying ISRA.rar 9 Graphical Administration 9 Command Line Administration 16

2. ISRA Configuration 18

Configuring Deployed ISRA 18 Changing ISRA Specific Parameters 20 Configurable ra.xml Properties 20 DomainName 20 **OrganizationName 20** LoggingLevel 21 LoggingMode 21 PageBufferSize 21 CacheRefreshInterval 21 SecurityCacheMode 21 MetaDataCacheRefreshMode 22 LogFileName 22 LogFileSize 22 LdapImplClassName 23 LdapImplClassString 23 InherentLogin 23 DeploymentInstance 23 PCHLogging 24 AllowAnonymousUser 24 **RPCLogging 24** ClientCodepage 25

GMTEnabled flag 25 ISLocale 26 IgnoreObjectBusyMsgInDocMigration 26 Configuring 10g-Specific Parameters 26 maxConnections 26 minConnections 26 scheme 27 waitTimeout 27 Configuring Multiple IS Servers with ISRA 27

3. Configuring and Deploying ISRA Console and Sample Application 28

ISRA Console 28 Configuring Sample Application 28 Deploying ISRA Console and Sample Application 30 Graphical Administration 30 Command Line Administration 33 Using the ISRA Console 33 Deploying IBM FileNet Image Viewer 35 Graphical Administration 35 Command Line Administration 38 IBM FileNet Image Viewer Quick Start Feature 39 Enabling Quick Start Feature 39 Known Issues in the Quick Start Feature 40

Testing Sample Application 41

4. LDAP Configuration 42

Mapping Existing LDAP Server Users to IS 42 Changing ISRA Specific Parameters for LDAP 44

5. Undeployment 45

Undeploying ISRA 45

Graphical Administration 45 Command Line Administration 48

Undeploying ISRA Console and Sample Application 48

Graphical Administration 49

Command Line Administration 51

Undeploying IBM FileNet Image Viewer 52

6. Troubleshooting 53

Disabling NCH Broadcasts 53

Appendix A : ra.xml 54

ra.xml 54 oc4j-ra.xml 57

Notices 59

Notices 59 COPYRIGHT LICENSE: 60 Trademarks 60

Index 62

About This Manual

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

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

IBM FileNet invites all customers to communicate with the <u>Documentation group</u> on any question or comment related to IBM FileNet manuals and online help. Send email to <u>comments@us.ibm.com</u>. We will make every effort to respond within one week. Your suggestions help us improve the products we deliver.

1

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, Microsoft Windows 2003 R2, Sun Solaris 9/10, HPUX 11i v2/v3, IBM AIX 5.3, IBM AIX 6.1, Novell SUSE Linux Enterprise Server 9/10 and RedHat Linux AS 4/5.
- IBM FileNet IS 3.6 SP2 and above

Mandatory Requirements for ISRA

The mandatory requirements for ISRA 3.4.0.x 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.

 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**).
- d. 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:fnswISRA340, 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:

😰 Login to Oracle Application Server Control - Netscape	_0 ×
Elle Edit View Go Bookmarks Iools Window Help	
🕥 💿 💿 🔇 [~ http://locahost:8888/em	
、/ El。 Si Home 阿 Netscape Q Search	
🔔 🕒 Netscape 👻 Enter Search Terms 🔍 🔍 Search 🥔 Highlight, 🛛 😒 Rop-Ups Elocied: 0 🛛 🥜 Clear Browser Hist	tory 📕News 🖾 Email 🧔 Weather 😕
Parew Tab 🛇 (Unititied)	×
ORACLE Enterprise Manager 10g Application Server Control	
Login	
User Name	
* Password	
Login	
Copyright © 1996, 2005, Oracle. All rights reserved.	
S 🖬 🙏 😢 🗋	-I- V d' /

4. Enter the **User Name** and **Password**. Click **Login**. The following screen appears:

Visra2k3	×
Oracle Enterprise Manager (oc4jadmin) - OC43: home - Microsoft Internet Explorer	<u>_18</u> _
Ele Edit Yew Figvorites Iools Help	4
🔾 Back - 💭 - 🖹 🖹 🐔 🔎 Search 🔥 Favorites 🕑 🎰 😓 🗔	
Address a http://iocahost:8888/em/j_security_check	💌 🛃 Go Unis
ORACLE Enterprise Manager 10g Application Server Control	Setue Loas Hele Loaout
OC4J: home	
	Refreshed Sep 6, 2006 11:07:15 AM GMT+05:30 • View Data Manual Refresh
Home Applications Web Services Performance Administration	
General	Response and Load
Status Up Start Time Sep 5, 2006 6:16:18 PM GMT+05:30 Oracle Henne C:00ract10g_10.x Host 10:2241.155 Notifications ()	0.6 0.4 0.2 0.00 0.075 0.000 9.07 9.400.000 260.401.00 Request Processing Time (seconds) Requests per second
Home Applications Web Services Performance Administration	<u>0</u>
Copyright @ 1996, 2005, Cracle, All rights reserved.	I Help I Lagout
(

5. Click the **Applications** tab.

Oracle Enterprise Manager (oc6jadmin) - OC42: home - Netscape File Edit View Go Bookmarks Tools Window Help
S S S Ktp://localhost:8888/em
, / Ex, 🐔 Home 💹 Netscape 🔍 Search
💽 Netscape 👻 Enter Search Terms 🔍 🔍 Search 🧈 Highlight 🔯 Rogingups Biocladd: 0 🥜 Form Fill 🔹 🖉 Clear Browser History 🗐 News 🖙 Enter Search
New Tab (% (Unitiled)
ORACLE Enterprise Manager 10g Application Server Control Setue Loss Hele Losset
OC4J: home
Page Refreshed Aug 24, 2006 7:27:44 PM IS
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 💌
(Starf) (Stop) (Undeploy) (Redeploy)
Select Resource Adapter A Resource Adapter Module Status EIS Type
C OracleASims OracleASims OracleAS JMS
Home Applications Web Services Performance Administration
Copyright @ 1996, 2005, Oracle. All rights reserved.
9 G & 97 D

6. Select **Standalone Resource Adapter** in the **View** dropdown box. Click **Deploy**. The following screen appears:

Oracle Enterprise Manager (oc4jadmin) - Deploy: Select Archive - Netscape	
Elle Edit View Go Bookmarks Tools Window Help	
() () () () () () () () () ()	
🗇 🚮 Home 🌆 Netscape 🔍 Search	
Netscape - Enter Search Terms - Search SHighlight OP-Ups Blog	ocked: 0 🧳 Form Fill 👻 🥔 Clear Browser History 🗒 News 🖾 Email 👙 Weather
New Tab 🛇 (Untitled)	(
DRACLE Enterprise Manager 10g	
Application Server Control	Setup Logs Help Logout
•O	O
Select Archive Application Attributes	Deployment Settings
eploy: Select Archive	Cancel) Step 1 of 3 Next
And the second	Cancel Step 1 of 3 Next
Archive The following types of archives can be deployed: J2EE application (EAR files), Web Module:	as All/AD Stas). E ID Medulas /E ID JAD Stas) and Dessures Adapter
Modules (RAR files).	es (war lifes), E3D Woodles (E3D 3AR lifes) and Resource Adapter
Archive is present on local host. Upload archive to the server where Application Server C	Control is running.
Archive Location	Browse
O Archive 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	
The location on server must be the absolute path or the relative path from	i jzeemionie
Deployment Plan	
The deployment plan is a file which allows you to customize deployment settings for an app created during this process. In the Deployment Settings step you can optionally edit the dep 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	
C Deployment plan is present on local host. Upload Deployment Plan to the server where A	Application Server Control is running.
	Browse
Plan Location	
C Deployment plan already present on server where Application Server Control is running.	
C Deployment plan already present on server where Application Server Control is running. Location on Server	
C Deployment plan already present on server where Application Server Control is running.	

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

🕸 Oracle Enterprise Manager (oc4jadmin) - Deploy: Application Attributes - Netscape	_ _ _ ×
_ Eile Edit View Go Bookmarks Iools Window Help	
C C C http://ocahost:8888/em	
🔪 / 🖽 Home 🔤 Netscape 🔍 Search	
Netscape - Enter Search Terms 🔍 🔍 Search 🥩 Highlight 🕺 Pop-Ups Blocked: 0 🥜 Form Fil -	🖉 Clear Browser History 👼 News 🖾 Email 🔅 Weather ᠉
😢 New Tab 🛇 (Untitled)	
ORACLE Enterprise Manager 10g	Setua Loas Heia Loaout
Select Archive Application Attributes Deployment Settings	
Deploy: Application Attributes	
Archive Type Resource Adapter Module (RAR file) Archive Location ISRA.rar Deployment Plan Creating a new plan	Cancel) Back Step 2 of 3 Next
* Resource Adapter Name ISRA	
Copyright © 1996, 2005, Oracle. All rights reserved.	Cancel Back Step 2 of 3 Neg

8. Enter the **Resource Adapter Name** and click **Next**. The following screen appears:

Oracle Enterprise Manager (oc4jadn		ployment Settings - Netscape
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools	: <u>W</u> indow <u>H</u> elp	
	> http://localhost	8888/em 🔽 💐 🔊
Home My Netscape 🔍	Search	
Netscape - Enter Search Terms		🗨 🔍 Search 🥜 Highlight 🛛 💽 Pop-Ups Blocked: 0 🚽 Form Fill 👻 🥜 Clear Browser History 👼 News 🗠 Email 🟠 Weather 🔹
New Tab 🛇 (Untitled)		
DRACLE Enterprise Manager	10.4	
Application Server Control	109	
		<u>Setur Loas Helr Loaout</u>
		Select Archive Application Attributes Deployment Settings
eploy: Deployment Setting	15	
opioy. Dopioyment octang	30	Cancel) Back Step 3 of 3 Deploy
Archive Type Resource Adapt Archive Location ISRA.rar	er Module (RA	
eployment Plan Creating a new	plan	
Dealers and Table		
Deployment Tasks	ke that you min	ht want to do before deploying your application.
Task Name	Go To Task	
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	Ø	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	Editing	
You can optionally use the Edit D		hutton to get more advanced
deployment options which the dep		

9. Click **Deploy**. The Confirmation screen appears:

🕲 Oracle Enterprise Manager (oc4jadmin) - Deploy: Deployment Settings - Netscape	
_ Eile Edit Yiew Go Bookmarks Iools Window Help	
S S S S S S S S S S S S S S S S S S S	
🔺 / 🖽 Home - 🜆 Netscape 🔍 Search	
👷 🖎 Netscape 👻 Enter Search Terms 🔍 🔍 Search Highlight 🕺 Pop-Ups Blocked: 0 🛛 🧷 Form Fil 👻 📿 Clear Browser His	tory 📃 News 🖾 Email 😂 Weather »
🕗 New Tab 🚫 (Untitled)	X
	Serap Logs Help Logour
E, Confirmation	(Return)
The Resource Adapter "ISRA" has been successfully deployed.	Retuin
The Resource Adapter TSRA has been successiony deproyed.	
Progress Messages	
 [Aug 24, 2006 7:31:12 PM] Connector Module Deployer for ISRA STARTS. [Aug 24, 2006 7:31:12 PM] Copy the archive to C:\OCLJ\2ee\home\connector ISRA [Aug 24, 2006 7:31:12 PM] Copy the archive to C:\OCLJ\2ee\home\connectorsISRA\SRA\rar [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 	
Copyright @ 1996, 2005, Oracle. All rights reserved.	Return
😰 🔜 🙏 💁 👔 javascript:doBeginTaski)	-IF- 12 er

10. Click Return. The following screen appears:

🕸 Oracle Enterprise Manager (oc4jadmin) - OC4J:	home - Netscape			- D ×
Elle Edit View Go Bookmarks Tools Window	Help			
G 🗿 🗿 🔕 🕓 http://loca	ilhost:8888/em			
🖌 🗇 🐔 Home 🔤 Netscape 🔍 Search				
Netscape - Enter Search Terms	👻 🔍 Search 🖋 Highlight 🛛 🔊 Pop-L	Jps Blocked: 0	🥖 Form Fill 👻 🦪 Clear Browser Histo	ory 👼 News 🖂 Email 👙 Weather »
🔄 New Tab 🛇 (Untitled)				
ORACLE Enterprise Manager 10g Application Server Control				Setue Loas Hele Loaout
OC4J: home				
			Page Refres	hed Aug 24, 2006 7:31:45 PM IST
Home Applications Web Service	<u>s Performance Administration</u>			
This page shows the J2EE applications and app	lication components (EJB Modules, WAP	Modules, F	Resource Adapter Modules) deployed	to this OC4J instance.
View Standalone Resource Adapters 🔻				
· · · · ·			Deploy	
Start Stop Undeploy Redeploy				
Select Resource Adapter	Resource Adapter Module	Status El		
• ISRA	ISRA	-	leNet Image Services	
O OracleASjms	OracleASjms	10 🕥	racleAS JMS	
Home Applications Web Service	s Performance Administration			
Copyright © 1996, 2005, Oracle. All rights reserved.	<u>Setup</u> <u>Logs</u> <u>F</u>	lelp Logo	ut	
S 🖂 🙏 📴 🔲				

11. Click **ISRA** from the Resource Adapter list. The following screen appears:

🕲 Oracle Enterprise Manager (oc4jadmin) - Resource Adapter: ISRA - Netscape	
🔔 Elle Edit View Go Bookmarks Iools Window Help	
S S S S Ntp://localhost:8888/em	
🚬 🗇 🖽 Home 🔤 Netscape 🔍 Search	
🔊 Netscape 👻 Enter Search Terms 🔍 🔍 Search 🎾 Highlight 🚫 Pop-Ups Blocked: 0 🧳 Form Fill 🗸	
New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) - R	
ORACLE Enterprise Manager 10g Application Server Control	Setue Loas Hele Loquit
OC4J: home > Application: default >	
Resource Adapter: ISRA	
	Page Refreshed Aug 24, 2006 7:40:04 PM IST
Home Connection Factories Administered Objects Administration	
Status Up Resource Adapter Module ISRA Status Up Resource Adapter Module ISRA Path C:VOCJUj2ee'home'connectors\USRA\USRA Description Unavailable Vendor Name FileNet EIS Type FileNet Image Services Adapter Version 1.0 License Require False Service Contracts Isidirectional Connection Definitions 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 rumplements 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:

🔊 Oracle Enterprise Manager (oc4jadmin)		scape		_ 🗆 ×
🔺 Eile Edit Yiew Go Bookmarks Iools W	indow <u>H</u> elp			
G O O O N	tp://localhost:8888/em			S. 🔊
🔺 / 🖽 🖌 🌆 Home 🕅 Netscape 🔍 Sear	ch			
Netscape - Enter Search Terms	💌 🔍 Search 🖋	Highlight 🔊 Pop-Ups Blocked: 0 🥜 Form Fill 🗸	news 🖓 Clear Browser History 👼 News 🖾 Email	🔅 Weather ᠉
🕙 New Tab 🛇 Oracle Enterprise Manager (oc	ŧjadmin) - R			X
ORACLE Enterprise Manager 10g Application Server Control			<u>Setup Loas H</u>	elp Loqout
OC4J: home > Application: default >				
Resource Adapter: ISRA				
			Page Refreshed Aug 24, 2006 7:4	1:19 PM IST
Home Connection Factories	Administered Objects	Administration		
currently configured for this resource ada	oter.	ication components to obtain connections to		ories Create
JNDI Location	Connection Factory Interfa	ce Connection Pool Used	Monitor Connection Factory	Delete
No connection factories found				
Shared Connection Pools				
		source adapter, that can be shared amongst ed by a connection factory cannot be deleted		
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 Objects	Administration		
Copyright @ 1996, 2005, Oracle. All rights reserve		<u>Setup Logs Help Logout</u>		
S 🖂 🙏 🖭 🔲				- 1 - 1

13. Click Create button of JNDI Location. The following screen appears:

🛞 Oracle Enterprise Manager (oc4jadmin) - Create Connection Factory: Select Interface - Netscape	
Ele Edit View Go Bookmarks Icols Window Help	
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- ² , N
🔪 / 📆 Home 💹 Netscape 🔍 Search	
🔊 🖎 Netscape 👻 Enter Search Terms 💽 🔍 Search 🦻 Highlight 🚺 Pop-Ups Blocked: () 🥜 Form Fill 👻 🧭 Clear Browser History 👼 News 🕻	🛙 Email 🔅 Weather ᠉
🕑 New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) - C	×
ORACLE Enterprise Manager 10g Application Server Control Setue	Loas Help Loaout
OC4J: home > Application: default > Resource Adapter: ISRA >	
Create Connection Factory: Select Interface	
To configure an instance of a connection factory, you must select the connection factory interface to be used. The connection factory interfaces support 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 ed by this resource
Copyright @ 1996, 2005, Oracle. All rights reserved.	continue)
	÷∎- ¶2 🔐 //

14. Select the **Connection Factory Interface** and click **Continue**. The following screen appears:

Oracle Enterprise Manager (oc4jadmin)		/ - Netscape		
Eile Edit View Go Bookmarks Tools W	indow <u>H</u> elp			
G O O O N	tp://localhost:8888/em			&, N
/ 🖬 , 🗌 Home 🕅 Netscape 🔍 Sear	ch			
Netscape - Enter Search Terms	👻 🔍 Search	Highlight Sop-Ups Blocked: 0	🥖 Form Fill 👻 🦪 Clear Browser Hist	ory 👼 News 🖾 Email 🛟 Weather 🔅
New Tab 🛇 Oracle Enterprise Manager (oc	4jadmin) - C			
DRACLE [®] Enterprise Manager 10g Application Server Control				Setue Loas Hele Loaout
C4J: home > Application: default > Re	source Adapter: ISRA >			
reate Connection Factory				
			Page Refreshe	Back Cancel Finish ed Aug 24, 2006 7:42:43 PM IST
Connection Factory Interface javax. * JNDI Location	resource.cci.Connection	Factory		
Connection Pooling Connection pooling allows a set of co pool or use one of the shared connect © No Connection Pool C Use Private Connection Pool			plication can choose to either crea	te its own exclusive connection
Use Shared Connection Pool Configuration Properties	¥			
Configurable properties for this conner	ction factory are listed belo	w. You can specify or override the v	alues for these properties.	
Name 🛆		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		
IgnoreObjectBusyMsgInDocMigration	java.lang.Boolean	false		
Inkoronti ogin) 🖂 🏂 🖓 🏹 http://localhost:8888/em/co	inun lang Intagar	n SPAGeneral-Menderal ISPAN		-II- 🔊 🔒

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

🕸 Oracle Enterprise Manager (oc4jadmin) - R	esource Adapter: ISRA - Netscape			
_ Eile Edit ⊻iew Go Bookmarks Iools Wind	ow <u>H</u> elp			Close
🕥 🕥 🕥 🛞 🕓 http	://localhost:8888/em			چ, 🔊
🖌 / 🖽 🖌 Mome 🔤 Netscape 🔍 Search				
Netscape - Enter Search Terms	💌 🔍 Search 🖋 Highlight	🚫 Pop-Ups Blocked: 0 🧳 Form Fill 💌	🦪 Clear Browser History 👼 News 🖂 Email	🔅 Weather »
🕘 New Tab 🛇 Oracle Enterprise Manager (oc4ja	dmin) - R			
ORACLE: Enterprise Manager 10g			Setue Loas 1	Help Logout
OC4J: home > Application: default >				
Resource Adapter: ISRA				
			Page Refreshed Aug 24, 2006 7:4	46:56 PM IST
Home Connection Factories	Administered Objects Adminis	tration		
Connection factories exposed by the resour currently configured for this resource adapte		components to obtain connections to t	ne EIS. This table lists the connection fac	
JNDI Location A Connection Fa	ctory Interface	Connection Pool Used	Monitor Connection Factory	Create Delete
	ci.ConnectionFactory	None	1	Û
Shared Connection Pools				
Shared connection pools are connection factory interface. A shared connection p			onnection factories that use the same cor	nection
	, , ,			Create
Name	In Use	Monitor Connection Pool	Cleanup Connections	Delete
No shared connection pools found				
Home Connection Factories	Administered Objects Adminis	tration		
Copyright @ 1996, 2005, Oracle, All rights reserved.	<u>Setup</u>	Logs Help Logout		
🕲 🖂 🤱 🖭 🔲 http://localhost:8888/em/conso	le/ias/oc4j/cf/cfCreate?raModule=ISRA8.app=defa	ukara=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.xmI** 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).
- 9. 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 "R<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 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).

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).

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 View Go Bookmarks Io	oois <u>w</u> indow <u>H</u> eip		
3 6 6 8	http://localhost:8888/em		
🖘 🚮 Home 🕅 Netscape 🤇	💫 Search		
Netscape - Enter Search Terr	ms 🔽 🔍 Search	🛛 🖋 Highlight 🛛 🔊 Pop-Ups Blocked: 0 🛛 🥜 Form Fill 👻 📿 Cle	ar Browser History 👼 News 🖂 Email 🔅 We
ew Tab 🛇 Oracle Enterprise Mana	ager (oc4jadmin) - E		
RACLE Enterprise Manag	jer 10 <i>g</i>		<u>Setup Loas Help Loao</u>
J: home > Application: default	> Resource Adapter ISRA >		
t Connection Factory:			
			(Revert) (A
		P	age Refreshed Aug 24, 2006 7:48:47 PM
General Security C	Options		
JNDI Location	ISCF javax.resource.cci.Connectio		
JNDI Location	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio		
JNDI Location Connection Factory Interface Connection Interface Connection Pool Configuration Properties	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None		rties.
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configuration Properties Configuration Properties for this Name △	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type	n low. You can specify or override the values for these prope Assembled Value	Deployed Value
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configuration Properties Configuration Properties for this Name AllowAnonymousUser	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean	n	Deployed Value true
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configuration Properties Configuration Properties for this Name AllowAnonymousUser	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type	n low. You can specify or override the values for these prope Assembled Value	Deployed Value
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configuration Properties Configuration Properties for this Name AllowAnonymousUser CacheRefreshInterval	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean	n	Deployed Value true
JNDI Location Connection Factory Interface Connection Interface Connection Pool Configuration Properties Configurable properties for this Name △ AllowAnonymousUser CacheRefreshInterval ClientCodepage	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean java.lang.Integer	n	Deployed Value true
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configuration Properties Configuration Properties for this Name △	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang Boolean java.lang Boolean java.lang.String	n	Deployed Value true
JNDI Location Connection Factory Interface Connection Onterface Configuration Properties Configurable properties for this Name A Name C CacheRefreshInterval CientCodepage DeploymentInstance	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean java.lang.Integer java.lang.String java.lang.Integer java.lang.String	n Second	Deployed Value true 30 1
JNDI Location Connection Factory Interface Connection Properties Configuration Properties Configurable properties for this Name △ NIIowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance DomainName	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean java.lang.Integer java.lang.String java.lang.Integer java.lang.String	n Second	Deployed Value true 30 1 jpis36ora
JNDI Location Connection Factory Interface Connection Interface Configuration Properties Configurable properties for this Name A AllowAnonymousUser CacheRefreshInterval ClientCodepage DeploymentInstance DomainName gnoreObjectBusyMsgInDocMii	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang Boolean java.lang Boolean java.lang.String java.lang.Integer java.lang.String gration java.lang Boolean	n Second	Deployed Value true 30 1 jpis36ora false
JNDI Location Connection Factory Interface Connection Interface Connection Properties Configuration Properties Configura	ISCF javax.resource.cci.Connectio javax.resource.cci.Connectio None connection factory are listed bel Type java.lang.Boolean java.lang.Integer java.lang.String java.lang.String java.lang.String java.lang.String java.lang.String	n Second	Deployed Value true 30 1 jpis36ora false 0

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 ISRATemp directory, run the command jar -xvf ISRA.rar

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

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.

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'

The value of the property for LDAP implementation for Active directory is com.filenet.is.ra.fnis.FN_IS_ActiveDirImpl and for Novell NDS is com.filenet.is.ra.fnis.FN_IS_NovellNDSImpl.

LdapImpIClassString

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

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 = takes values from 1 to 100. If there is only one instance then it defaults to 1. Else the value has to be set to the Number of Deployment instances.

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_0_RPC.log is renamed to ISRA_1_0_RPC_1.log, and a new file ISRA_1_0_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 Cp1252.

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.

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_1	Cp1252
ISO8859_2	Cp1250
ISO8859_5	Cp1251
ISO8859_6	Cp1256
ISO8859_7	Cp1253
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.

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

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:

- 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.

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:

G	http://loca	lhost:8888/em/console/	'ias/oc4j/applications					3.
	A Home My Netscape Search	Customize						
Net:	scape - Enter Search Terms	Search	🥩 Highlight 🚺 💇 P	p-Ups Blocked:	0 🥜 For	m Fill 👻 🥜 C	Ilear Browser His	tory 👼 News
New Ta	ab 🖉 🛇 Oracle Enterprise Manager (oc4jadmin)	- 0						
	CLE Enterprise Manager 10g						<u>Setup</u> Logs	<u>s Help Loqout</u>
C4J:	home							
			Report and a sound area	Pag	ge Refreshe	d Feb 18, 20	006 12:32:39	PM GMT+05:30
Ho	me Applications Web Service	s <u>Performance</u>	Administration					
stance.	e shows the J2EE applications and app Applications	lication components	: (EJB Modules, W	AR Modules/	, Resource		dules) deploye	ed to this OC4J
stance. iew 🏳 (Start)	Applications	lication components	: (EJB Modules, W		, Resource	Adapter Moo	dules) deploye	ed to this OC4J
stance. iew 🏳 (Start)	Applications	lication components Status Start Tin	Active	AR Modules Request Processing Time (seconds)	Active /			ed to this OC4J
stance. iew A Start xpand.	Applications		ne Requests 2006 0 AM	Request Processing Time	Active /	(Deploy) Application Defined		ed to this OC4J
stance. iew A Start xpand.	Applications	Status Start Tin	Active Requests 2006 0 AM 30 2006 1 AM	Request Processing Time (seconds)	Active / EJB Methods	(Deploy) Application Defined MBeans		ed to this OC4J
stance. iew A Start xpand elect N C	Applications	Status Start Tim ↑ Feb 18, 2 11:59:50 GMT+05: ↑ Feb 18, 2 ↑ Feb 18, 2 ↑ Feb 18, 2 ○ H:59:50 GMT+05: GMT+05:	Active Requests 2006 0 AM 30 2006 1 AM	Request Processing Time (seconds) 0.00	Active J EJB Methods O	(Deploy) Application Defined MBeans 2		ed to this OC4J

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:

Cracle Enterprise Manager (oc4)	admin) Doplow Application At	tributos Microsoft Internet	Explorar		×
	admin) - Deploy: Application At jelp	tributes - Microsoft internet i	LAPIOI el		
🕝 Back 🔹 🕥 - 💌 😰 🏠	🔎 Search 🤺 Favorites) 🔗 · 🌺 🛚 · 📒 (8		
Just dial Select a city 🖌 Search	By Company/Name M Enter Yo	ur Search 🛛 🖌 😖 Eat o	out 📊 Hotels 📘 Movies	G Google Searc	か 🕶 Go 🣍 Help »
Address 🙋 http://chariot4b:8889/em/conso	ole/ias/j2ee/deploy/deployAppAttributes				💌 🄁 Go
ORACLE Enterprise Manager 1 Application Server Control	10 <i>g</i>				Help Logout
	Select Archive	Application Attributes Deploy			
Deploy: Application Attribute	S				
Archive Type J2EE Application Archive Location C:134FP11JSRACo Deployment Plan Creating a new p	nsole.ear			(Cancel) (Bac	Step 2 of 3 Next
* Application Name	ISRA Console				
Parent Application Bind Web Module to Site	default v default-web-site v				
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 Aracle, JD Edwards, PeopleSoft, and Retek a About Oracle Enterprise Manager 10g Applic	re registered trademarks of Oracle Corp	Help Logout	nes may be trademarks of their n		2
					Scal intranet

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

le Edit View Favorites Iools Heli Back - O - 💌 😰 🏠 usticial Select a city 💌 Search By	Search	👷 Favorites 🛷 🔗 🍇 🛛 🕶 🔒	
ust dial Select a city 💌 Search By	-	🔶 Favorites 🙆 😞 😹 🔹 🦳 😭	
	Company/Na	me 💌 🛛 Enter Your Search 🔍 🚱 😝 Eat out 🙀 Hotels 📮 Movies 🛛 🔀 Google Search 💌 Go	? Help
dress 🙋 http://chariot4b:8889/em/console,	/ias/j2ee/deploy	/deploymentSettings	🛩 🄁 Go
RACLE Enterprise Manager 10	g		
iplication Server Control		Help	<u>.oqout</u>
		Select Archive Application Attributes Deployment Settings	
eploy: Deployment Settings		(Cancel) (Back] Step 3 of 3	
Archive Type J2EE Application (f 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 ISRA SampleWEB: 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 (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 grou 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		
Auvanceu Deployment Plan Et	uning	📢 Local intra	net

8. Click **Deploy**. The Confirmation screen appears:

Oracle Enterprise Manager (oc4jadmin) - Confirmation - Microsoft Internet Explorer	_ 0
e Edit <u>Vi</u> ew Favorites Iools <u>H</u> elp	
🕽 Badx 👻 🔊 - 💌 🗟 🏠 🔎 Search 🤸 Favorites 🤣 🔗 - 🌺 📓 - 🧾 🖇	
st diol Select a city 💌 Search By Company,Name 💌 Enter Your Search 💌 💿 🥃 Eat out 🙀 Hotels 🙀 Movies 🔀 Google Search	🕶 Go ? Help
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	
Togets wessages TAug 28, 2008 4:56:02 PMI Initializing Servet; com.tilenet.is.ra.sa.servlet.LoginServlet for web application ISRASampleWEB	
May 28, 2008 4:55:02 PM] Initializing Servict com filenet is rais as servict. LogOffservlet for web application ISRASample/WEB	<u>^</u>
Aug 28, 2008 4:56:02 PMI Initializing Servet: commencer as a servet. Controller Servet for web application ISRASample/WEB	
[Aug 20, 2008 4:56:02 PM] initiatizing Servet. com/interest is a salesteret Controller Servet for web application (SRASampleWEB	
[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 PMI Initializing Servlet: com filenet is ra.sa.servlet. ChangePasswordServlet for web application ISRASampleWEB	
Aug 26, 2006 4:56:20 PMI Initializing Seriet: confinements as served createWorkspaceServet for web application ISRASampleWEB	
[Aug 20, 2008 4:56:02 PM] initiatizing Servet. cominerent is rais a servet. Create workspace Servet nor web application ISRASample/WEB	
[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 PMI 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 26, 2006 4:56:02 PM] Binding web application(s) to site default-web-site ends [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:

Eile Edit View Favorites Iools Help									-
🔇 Back 🔹 📀 - 💌 😰 🏠 🔎 Search 🤸	Favorites	🥝 🔗 🍓	× -	3					
Just digi Select a city Search By Company/Name	• E	nter Your Search	60 🔒	Eat out	Hotels 📘 Mo	vies G	Google Search	✓ G0 ? Н	elp
Address 🛃 http://chariot4b:8889/em/console/ias/oc4j/applications	?viewNam	e=apps							Go
ORACLE Enterprise Manager 10g							Setup Lor	<u>gs Help Logout</u>	
Cluster Topology > Application Server: tstora.Chariot4b.in.i OC4J: oc4j	<u>bm.com</u>	>							
					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)							
Select All Select None Expand All Collapse All		Start Time	Active Requests		Active EJB	Application Defined MBeans			
Select All Select None Expand All Collapse All				Processing Time	Active EJB	Defined MBeans			
Select All Select None Expand All Collapse All		Start Time		Processing Time	Active EJB	Defined			
Select All Select None Expand All Collapse All Select Name All Applications	Status	Start Time Aug 18, 2008 3:35:35 PM IST		Processing Time	Active EJB	Defined MBeans			
Select All Select None Expand All Collapse All Select Name All Applications ascontrol	Status	Start Time Aug 18, 2008	Requests	Processing Time (seconds)	Active EJB Methods	Defined MBeans			
Select All Select None Expand All Collapse All Select Name All Applications ascontrol √ default	Status ় ় ি	Start Time Aug 18, 2008 3:35:35 PM IST Aug 28, 2008	Requests 0	Processing Time (seconds) 0.00	Active EJB Methods	Defined MBeans			
Select All Select None Expand All Collapse All Select Name □ ▼All Applications □ ascontrol □ ▼ default □ ISRA Console □ ▶ Middleware Services ♥ The floor of the services	Status Status ŵ ŵ w It application, Enter	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 i	upon the parent	
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.

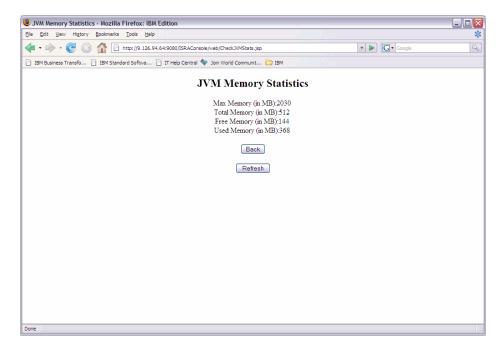
A link has been provided on the page, to access the ISRA Sample Application.

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 Beoug 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 H	slp					
	ost:8888/em/console/ias/oc4	j/applications				🗖 🖉 🛽
🔺 / 🖽 🖌 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	
deres in http://dranot-de-las8/em/donaide-las8/zee/deploy/deploySelectArchive/command-start/Wizard&appliewName-apps Select Archive Application Server Control Select Archive Application Attributes Deployment Sellings eploy: Select Archive Cance) Step 1 of 3 Next Archive Cance) Step 1 of 3 Next Archive Select Archive Control Cance) Step 1 of 3 Next Archive Select Archive Control Cance) Step 1 of 3 Next Archive Select Archive Control Cance) Step 1 of 3 Next Archive Select Archive Control Archive Select Archive Control Archive Select Archive Control Select Archive Select Archive Select Archive Control Is running. Archive Is arleady present on local host. Upload the archive to 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 Zeehome	🔆 Back 🝷 🕥 🕤 🗾 🗾	🏠 🔎 Search 🤺 Favorites 🚱 🔗 - 🌺 🛛 👻 📙 🖇	
Cancel Step 1 of 3 Nex Select Archive Application Attributes Deployment Settings eploy: Select Archive Cancel Step 1 of 3 Nex Cancel Step 1			
Select Archive Select Archive Application Server Control Select Archive Application Attributes Deployment Settings eploy: Select Archive Cancel Step 1 of 3 Neg Archive Cancel Step 1 of 3 Neg Archive Cancel Step 1 of 3 Neg Archive is already present on local host. Upload the archive to the server where Application Server Control is running. Archive is already present on the server where Application Server Control is running. Location on Server The following types of archives. Later in the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan is an XML file that contains the deployment plan on optionally edit the deployment plan and save it for a future deployment of this application. @ Automatically create a new deployment plan. The deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Deployment plan is present on local host. Upload the deployment plan to the server must be the absolute path or the relative path from Beehome Deployment plan is present on local host. Upload the deployment plan to the server Control is running. Deployment plan is present on local host. Upload the deployment plan to the server Control is running. Deployment plan is present on local host. Upload the deployment plan to the server Control is running. Deployment plan is present on server where Application Server Control is running. Deployment plan is present on server where Application Server Control is running. Deployment plan is present on server where Application Server Control is running. Deployment plan is 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 Beehome	dress 🔄 http://chariot4b:8889/em	n/console/las/j2ee/deploy/deploySelectArchive?command=startWizard&appViewName=apps	⊻ ≥
Performed plan staffing with the based on OC4 defaults and information contained in the archive Performed plan staffing with be based on OC4 defaults and information contained in the archive Performance Plan Location Performed plan staffing with best on server where Application Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Plan. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server plan staffing with best on Server Control is running. Performed plan staffing with best on Server Performed Part Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Control is running. Performed plan staffing with best on Server Performed Part Server Control is running. Performed plan sterformed plan Server Server Control is running. Performed		ıger 10 <i>g</i>	Setua Loas Hela Loaout
Cance) Step 1 of 3 New Archive The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files). Archive Location [C:134FP1HNImageViewer ar Archive Location [C:134FP1HNImageViewer ar Concellent on Server The location 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 Beehome Deployment Plan The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan essent on Iocal host. Upload the deployment plan and save it for a future deployment of this application. The deployment plan settings will be based on OC4J defaults and information contained in the archive Deployment plan is present on server where Application Server Control is running. Plan Location Deployment plan is a reserv where Application Server Control is running. Plan Location Deployment plan is a lifeady present on server where Application Server Control is running. Plan Location The deployment plan is a reserv where Application Server Control is running. Plan Location Deployment plan is a lifeady 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 Beehome		Select Archive Application Attributes Deployment Settings	
Archive The following types of archives can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files). Ø Archive is present on local host. Upload the archive to the server where Application Server Control is running. Archive Location C134FP1VFNImageViewer ear Ø 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 Øcehome Deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan is an XML set in the deployment planes on occal host. Upload the deployment plane and save if for a future deployment plane deployment of this application. O Automatically create a new deployment plan. The deployment plane strings will be based on OC4 defaults and information contained in the archive O Deployment plane strings will be based on OC4 defaults and information contained in the archive O Deployment plane is present on local host. Upload the deployment plan to the server Control is running. Plan Location Browse O Deployment plane is already present on server where Application Server Control is running. Location on server Browse O Deployment plane is present on local host. Upload the deployment plane is running. Location on server	aploy: Select Archive		
The following types of archives can be deployed: J2EE application (EAR files). Web Modules (WAR files), EJB Modules (EJB JAR files) and Resource Adapter Modules (RAR files). ③ Archive Is present on local host. Upload the archive to the server where Application Server Control is running. Archive Location <u>C134FP1FNImageViewer.ear</u> ③ Archive is already present on the server where Application Server Control is running. Location on server <u>The location on server nust be the absolute path or the relative path from 2eehome</u> Deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment planess. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. [®] Automatically create a new deployment plan and information contained in the archive [®] Deployment plan is present on local host. Upload the deployment plan to the server Application Server Control is running. [®] Plan Location [®] Iseaton on server must be the absolute path or the relative path from <u>Browse</u> [®] Deployment plan as laready 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 <u>2eehome</u>			Cancel Step 1 of 3 Next
Modules (RAR files). (a) Archive is present on local host. Upload the archive to the server where Application Server Control is running. Archive Location [C:33FP11FNImageViewer.ear] (b) Archive is already present on the server where Application Server Control is running. Location on Server The tocation on server must be the absolute path or the relative path from Zeehome Deployment Plan The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. (b) Automatically create a new deployment plan. The deployment plan set and the based on Col defaults and information contained in the archive Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Plan Location Deployment plan is already present on server where Application Server Control is running. Plan Location Deployment plan is an leready present on server where Application Server Control is running. Location on Server The tocation on server must be the absolute path or the relative path from Zeehome			
Archive Location C:134FP1FNImageViewer.ear Carchive Location C:134FP1FNImageViewer.ear Archive is already present on the server where Application Server Control is running. Location on server must be the absolute path or the relative path from 2eehome Deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment planess. Later in the deployment process, you can optionally edit the deployment plan and save if for a future deployment of this application. Carchive Location Carchive		es can be deployed: J2EE application (EAR files), Web Modules (WAR files), EJB Modules (EJB J	AR files) and Resource Adapter
 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 @eehome Deployment Plan The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan estings will be based on CO4 defaults and information contained in the archive Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Plan Location Deployment plan is interastly present on server where Application Server Control is running. Location on Server Deployment plan is already present on server where Application Server Control is running. Location on Server The bolation contained path or the relative path from @eehome 	Archive is present on local	al host. Upload the archive to 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 Dechome Deployment Plan The deployment plan is an XUL file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. © Automatically create a new deployment plan. The deployment plan settings will be based on OC4 defaults and information contained in the archive © Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Plan Location © Deployment plan is already present on server where Application Server Control is running. Location on Server The booking path or server must be the absolute path or the relative path from Dechome	Archive Location	C:\34FP1\FNImageViewer.ear Browse	
The location on server must be the absolute path or the relative path from Qeehome Deployment Plan The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment plan estings will be based on 0C4/ 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 running. Plan Location O Deployment plan is already present on server where Application Server Control is running. Location on Server must be the absolute path or the relative path from Qeehome The location on server must be the absolute path or the relative path from Qeehome	O Archive is already present	t on the server where Application Server Control is running.	
Deployment Plan The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process, Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. (a) Automatically create a new deployment plan. (b) Automatically create a new deployment plan. (b) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Automatically create a new deployment plan. (c) Deployment plan singrave the based on Oc44 defaults and information contained in the archive (c) Deployment plan is present on local host. (c) Deployment plan is present on local host. (c) Deployment plan is already present on server where Application Server Control is running. (c) Deployment plan is already present on server where Application Server Control is running. (c) Cortion on Server (c) Deployment plan is already present on server must be the absolute path or the relative path from @cenhome (c) Cortion on Server	Location on Server		
The deployment plan is an XML file that contains the deployment settings for an application. If you do not have a deployment plan, one will be created automatically during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. (a) Automatically create a new deployment plan. The deployment plan settings will be based on Oc41 defaults and information contained in the archive (b) Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Plan Location (b) 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 (2eehome		The location on server must be the absolute path or the relative path from j2ee/home	
during the deployment process. Later in the deployment process, you can optionally edit the deployment plan and save it for a future deployment of this application. (a) Automatically create a new deployment plan. The deployment plan settings will be based on OC4J defaults and information contained in the archive (b) Deployment plan settings will be based on OC4J defaults and information contained in the archive (c) Deployment plan is present on local host. Upload the deployment plan to the server where Application Server Control is running. Plan Location (c) 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 @enhome	Deployment Plan		
The deployment plan settings will be based on OC4J 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 running. Plan Location 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 (2eohome			
Plan Location Browse 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 genhome			
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 genhome	O Deployment plan is preser	nt on local host. Upload the deployment plan to the server where Application Server Control is runn	iing.
Location on Server The location on server must be the absolute path or the relative path from Cechome	Plan Location	Browse	
The location on server must be the absolute path or the relative path from ¿Zee/home	O Deployment plan is alread	dy present on server where Application Server Control is running.	
	Location on Server		
(Cancel) Stop 1 of 3 Nev		The location on server must be the absolute path or the relative path from j2ee/home	
			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	
Elle Edit View Go Bookmarks Iools Window Help	
http://localhost:8888/em/console/las/j2ee/deploy/deployAppAttributes	
🔺 🖉 🖬 Home 🌆 Netscape 🔍 Search 🛇 Customize	
🔊 🖎 Netscape 👻 Enter Search Terms 🔍 🔍 Search 🥔 Highlight 🕺 🕺 Pop-Ups Blocked: 0 🧳 Form Fill 👻	⊘ Clear Browser History News >
🔏 New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) - D	X
ORACLE Enterprise Manager 10g Application Server Control	<u>Setup Logs Help Logout</u>
Select Archive Application Attributes Deployment Settings	
Deploy: Application Attributes	
Archive Type JZEE Application (EAR file) Archive Location FNImageViewer.ear Deployment Plan Creating a new plan	Cancel Back Step 2 of 3 Negt
* Application Name FNimageViewer	
Parent Application default	
Bind Web Module to Site default-web-site 💌	
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:

Efe Edit yew Fgyoritis Tools beb Image: Stack + Image: Stack	Oracle Enterprise Manager (oc4	ijadmin) - Deplo	y: Deployment Settings - Microsoft Internet Explorer	a) 🔰
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		-
The second seco	🗲 Back 🔹 🕥 - 💌 😰 🦿	of Search	📌 Favorites 🚱 🔗 🦂 🛛 - 📴 🚯	
RACLEE Finterprise Manager 10g Select Archive Application Attributes Deployment Settings Select Archive Application Attributes Deployment Settings Cancel Back Step 3 of 3 Deploy Archive Type J2EE Application (EAR file) Cancel Caucel Back Step 3 of 3 Deploy Archive Type J2EE Application (EAR file) Cancel Back Step 3 of 3 Deploy Archive Location C:\34FP1\FNImageViewer.ear Parent Application Mame FNImageViewer Parent Application default Bind Web Module to Site default.web.site Context Root FNImageViewer Deployment Tasks The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled. Task Name Go To Task Description 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. The list of users and groups is obtained from the security provider you selected for this application. Configure EJBs Configure ELBs Configure Clustering Configure Clustering Configure Clustering Manipulate the classpath of your application. Configure Class Loading Manipulate the classpath of your application. Configure Class Loading	Jstdial Select a city 🔽 Sear	ch By Company/Na	ame 💌 🛛 Enter Your Search 🔍 🚱 😖 Eat out 🙀 Hotels 🚆 Movies 🛛 🔀 Google Search 💌 Go 💡 H	elp ³
Item Longet Item Longet Item Longet Select Archive Application Attributes Deployment Settings Select Archive Application Attributes Deployment Settings Cancel Back Step 3 of 3 Deploy Archive Type J2EE Application (EAR file) Cancel Back Step 3 of 3 Deploy Archive Type J2EE Application (EAR file) Cancel Back Step 3 of 3 Deploy Parent Application Name FNImageViewer Parent Application default Bind Web Module to Site defaultweb site Control Of Cask Philes Deployment Tasks The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled. Task Name Go To Task Description Map Environment References Map any environment references in your application (for example, data sources) to physical entities currently present on the operational environment. Select Security Provider acts as the source for available users and groups. The list of users and groups is obtained from the security provider you selected for this application. Centregrade of the sample action. Configure Clustering <t< th=""><th>ress 🔄 http://chariot4b:8889/em/cor</th><th>nsole/ias/j2ee/deploy</th><th>/deploymentSettings</th><th>Go</th></t<>	ress 🔄 http://chariot4b:8889/em/cor	nsole/ias/j2ee/deploy	/deploymentSettings	Go
eploy: Deployment Settings Cancel Back Step 3 of 3 Deploy Archive Type JZEE Application (EAR file) Application Name FNImageViewer Parent Application default Problement Plan Creating a new plan Deploy Parent Application Gefault Step 3 of 3 Deploy Parent Application Creating a new plan Parent Application default Bind Web Module to Site default Mediate Deployment Tasks The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled. Task Name Go To Task Description Map any environment References 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 racts as the source for available users and groups when mapping security roles. Map Security Roles Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you explication. Description Configure ELBs Configure clustering of your application. Description Configure Clustering Configure clustering of your application. Description. Confi		r 10 <i>g</i>	Heb Legout	
Cancel Back Step 3 of 3 Deploy Archive Type J2EE Application (EAR file) cribe Location (C34EP4FIKmageViewer- eployment Plan Creating a new plan Parent Application Name FNImageViewer Parent Application default Deployment Tasks The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled. Task Hame Go To Task Description Map Environment References Map any monoment 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 Map any security provider acts as the source for the sapplication. Description Configure EJBs Configure eLustering Configure eLustering of your application. Description Configure Clustering Manipulate the classpath of your application. Description Configure Clustering Manipulate the classpath of your application. Configure Clustering Manipulate the classpath of your application. Advanced Deployment Plan Editing Manipulate the classpath of your application.			Select Archive Application Attributes Deployment Settings	
Archive Type J2EE Application (EAR file) Application Name FNImageViewer Chive Location C:334FP1IFNImageViewer.ear Parent Application default Depiorment Plan Creating a new plan Bid Web Module to Site default web.site Context Root FNImageViewer Context Root FNImageViewer Deployment Tasks The table below provides a set of common deployment tasks you might want to perform for this application of default web.site context Root FNImageViewer Task Name Go To Task Description 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 Map any security roles exposed by your application. Description Configure EUBs Configure clustering Configure clustering of your application. Description Configure Clustering Manipulate the classpath of your application. Description Advanced Deployment Plan Editing Manipulate the classpath of your application. Description	ploy: Deployment Setting	qs		
The table below provides a set of common deployment tasks you might want to perform for this application. Only those tasks that apply to the current application are enabled. Task Hame Go To Task Description Map Environment References 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 Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application. Description Configure EJBs Configure the Enterprise JavaBeans in your application. Description Configure Clustering Manipulate the classpath of your application. Assecurity of your application. Advanced Deployment Plan Editing Manipulate the classpath of your application. Edition	rchive Location C:\34FP1\FNIma	ageViewer.ear	Parent Application default Bind Web Module to Site default-web-site	
Map Environment References 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 Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application. Configure EJBs Configure the Enterprise JavaBeans in your application. Configure Clustering Configure clustering of your application. Configure Class Loading Manipulate the classpath of your application. Advanced Deployment Plan Editing Editing	The table below provides a set of	common deploy	ment tasks you might want to perform for this application. Only those tasks that apply to the current application are	
Image: Configure Clustering Image: Configure Clustering <t< th=""><th>Task Name</th><th>Go To Task</th><th>Description</th><th></th></t<>	Task Name	Go To Task	Description	
Map Security Roles Map any security roles exposed by your application to existing users and groups. The list of users and groups is obtained from the security provider you selected for this application. Configure EJBs Configure the Enterprise JavaBeans in your application. Configure Clustering Configure clustering of your application. Configure Class Loading Manipulate the classpath of your application. Advanced Deployment Plan Editing Configure Clustering	Map Environment References	Ø		
Obtained from the security provider you selected for this application. Description Configure EJBs Configure the Enterprise JavaBears in your application. Description Configure Clustering Configure clustering of your application. Description Configure Clustering Manipulate the classpath of your application. Description	Select Security Provider		A security provider acts as the source for available users and groups when mapping security roles.	
Configure EJBs Configure the Enterprise JavaBeans in your application. Configure Clustering Configure clustering of your application. Configure Class Loading Manipulate the classpath of your application. Advanced Deployment Plan Editing Configure Class Loading	Map Security Roles	Ø	latin in an an in the second	
Configure Class Loading Manipulate the classpath of your application. Advanced Deployment Plan Editing	Configure EJBs	Ø	Configure the Enterprise JavaBeans in your application.	
Advanced Deployment Plan Editing	Configure Clustering		Configure clustering of your application.	
	Configure Class Loading		Manipulate the classpath of your application.	
tone 🧐 Local intranet	Click Edit Donloymont Dian to c	-		

8. Click **Deploy**. The Confirmation screen appears:

Oracle Enterprise Manager (oc4jadmin) - Confirmation - Microsoft Internet Explorer Je Edit Vjew Favorites Icols Help	احا
3 Back + 🛞 - 🖹 🗟 🏠 🔎 Search 👷 Favorites 🤣 🔗 + چ 🔞 + 🛄 🖇	
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	~
DRACLE Enterprise Manager 10g	
pplication Server Control Het	Logout
Confirmation	
, commadon	Return
	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] Initiating application: Initiage viewer	
[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		
Eile Edit View Go Bookmarks Tools Window He	lp						
	ost:8888/	'em/console/ias/oc4j	/applications?	viewName=app	s		
🔺 / 🖽 Home 🕅 Netscape 🔍 Search 🛇 Cu	stomize	•					
Netscape - Enter Search Terms	-	🔍 Search 🛛 🖋 High	ilight 🕺 P		0 🥜 For	m Fill 🔻 🥑 C	ilear Browser History 👼 News 🛛 🚿
😢 New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) - 4	o						X
ORACLE Enterprise Manager 10g Application Server Control							Setup Loas Help Loaout
OC4J: home				Doc	o Dofrocho	d Eab 10 20	006 12:47:36 PM GMT+05:30
Home Applications Web Services	Perf	ormance <u>Adr</u>	ninistration	Pay	je Reiresne	0 Feg 10, 20	JUD 12:47:30 PW GW1+03:30
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							
Expand All Collapse All Select Name	Status	s Start Time	Active Requests	Request Processing Time (seconds)	EJB	Application Defined MBeans	
© ▼ <u>default</u>	Û	Feb 18, 2006 11:59:50 AM GMT+05:30	0	0.00	0	2	
C <u>FNimageViewer</u>	Û	Feb 18, 2006 12:46:08 PM GMT+05:30	0	0.00	0	0	
C ascontrol	仓	Feb 18, 2006	1	0.32	0	1	
🕲 🔜 🤱 💁 📄 Done							-II- ~ 6

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

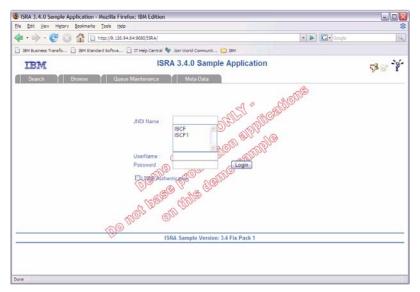
After the ISRA Sample Application is started, the steps to verify the deployment and access the ISRA Sample Application are:

1. Open a Web browser and enter the URL

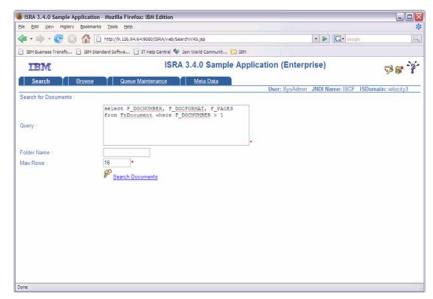
http://<server:port>/context_root.

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:

🕲 Oracle Enterprise Manager (oc4jadmin) - OC43: home - Netscape			_ <u>-</u>
_ Elle Edit View Go Bookmarks Tools Window Help			
Contractions			
🖌 / 🖽 Home 🔤 Netscape 🔍 Search 🛇 Customize			
New Tab S Oracle Enterprise Manager (oc4jadmin) - 0			×
ORACLE Enterprise Manager 10g Application Server Control			<u>Setup Logs Help Logout</u>
OC4J: home			
		Page Refreshed Feb	22, 2006 12:42:07 PM GMT+05:30
Home Applications Web Services Performance Administration			,
This page shows the J2EE applications and application components (EJB Modules, WAR	Modules	Resource Adapter Modules) deployed t	to this OC4.1 instance
	modulet	, resource magner modules) acpoyed i	to this 0040 maturice.
View Standalone Resource Adapters		Deploy)
(Start) (Stop) (Undeploy) (Redeploy)		Deproy	
Select Resource Adapter A	Status	EIS Type	
ISRA RA1	Û	FileNet Image Services	
O OracleASjms OracleASjms	Û	OracleAS JMS	
Home Applications Web Services Performance Administration			
Setup Logs	Help I Li	aout	
Copyright @1996, 2005, Oracle. All rights reserved.			
			-I- 1 6

5. Select ISRA and click **Stop** to stop the ISRA resource adapter. The following message appears:

Risra2k3	
Oracle Enterprise Manager (oc4jadmin) - OC43: home - Microsoft Internet Explorer	
Elle Edit View Favorites Iools Help	
3) Back 🔹 🕥 🖌 😰 🐔 🔎 Search 👷 Favorites 🛛 🕢 🖓 🖘 😓 🚍	
ddress 🕘 http://localhost:8888/em/console/ias/oc4j/applications	🔽 🄁 Go 🛛 Link
ORACLE Enterprise Manager 10g	<u>Setup</u> Logo <u>Help Logout</u>
灵 Confirmation	
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:

Wisra2k3		
🚰 Oracle Enterprise Manager (oc4jadmin) - OC43: home - Microsoft Internet Explorer		- 8 -
Ele Edit View Favorites Iools Help		4
😮 Back 🔹 🕤 👻 📓 🐔 🔎 Search 👷 Favorites 🛛 😥 😓		
Address ahttp://localhost:8888/em/console/ias/oc4)/applications?view/Name=ras8infoKey=d3_10d8148de09	💌 🔁 Go	Links
ORACLE Enterprise Manager 10g		
Application Server Control	<u>etup Logs Help Logout</u>	-
Confirmation		
ISRA has been stopped.		
OC4J: home		- 1
Page Refreshed Sep 6, 2006 1	1:18:55 AM GMT+05:	30
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)		
Select Resource Adapter 🛆 Resource Adapter Module Status EIS Type		
ISRA ISRA ISRA FileNet Image Services		
C <u>OracleASjms</u> OracleASjms ☆ OracleAS JMS		
Home Applications Web Services Performance Administration		
		=
Setup Logs Help Logout Copyright © 1996, 2005, Oracle. All rights reserved.		
k		
		Þ

7. Click **Undeploy**. The following message appears

🕸 Oracle Enterprise Manager (oc4jadmin) - Undeploy Resource Adapter - Netscape		_	. 8 ×
Elle Edit View Go Bookmarks Tools Window Help			
👷 🚱 🚳 🔕 💽 http://localhost:8888/em/console/ias/j2ee/deploy/undeployConfirmation?appWewName=ras8application1d=RA18archive	eType=rar	3.	N
→ / E, Mome I Netscape Q Search Q Customize			
🕘 New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) - U			\mathbf{X}
ORACLE Enterprise Manager 10g Application Server Control	Setup Logs	Help Log	out
			_
<u> </u>			
		No (Yes
You have chosen to remove Resource Adapter "RA1".			
Do you want to proceed?			
		(No) (Yes)
Copyright © 1996, 2005, Cracle. All rights reserved.			100
		-II- 9	

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

😰 Oracle Enterprise Manager (oc4jadmin) Netscape		_ 8 ×
👝 Elle Edit View Go Bookmarks Iools Window Help		
Concerning the second s		S. 🔊
🖌 / 🖽 Hone 🕅 Netscape 🔍 Search 🛇 Customize		
🕗 New Tab 🛇 Oracle Enterprise Manager (oc4jadmin) -		×
ORACLE Enterprise Manager 10g		
Application Server Control	Setup Logs H	elp Logout
良 Confirmation		(Return)
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.		
		≖∙®₫∕

9. Click **Return** to verify that the selected ISRA application is undeployed.

🖗 Oracle Enterprise Manager (oc4jadmin) - OC43: home - Netscape	B_×
_ Ele Edit View Go Bookmarks Iools Window Help	
S S S S S S S S S S S S S S S S S S S	o 💐 🔊
A / E, 1 Mine Mi Netscape 🔍 Search 🛇 Customize	
Pew Tab 🛇 Oracle Enterprise Manager (octjadmin) - O	×
ORACLE: Enterprise Manager 10g Application Server Control Set	up Logs Help Logout
OC4J: home	
Page Refreshed Feb 22, 2006 2	1:09:06 PM GMT+05:30
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.	
	-11- 12 2 1

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:

appoulo.								
Oracle Enterprise Manager (oc4jadmin) - OC4J: oc	4j - Mic	rosoft Internet Ex	plorer					_ = ×
Ele Edit View Favorites Tools Help								
🚱 Back 🝷 📀 - 💌 😰 🏠 🔎 Search 🤺	Pavorite:	• 🥴 🔗 🍓	× •	. 8				
Just dial Select a city Search By Company/Name	✓ E	nter Your Search	🖌 😡 🔒	Eat out 🔢	Hotels 📙 Mo	ovies G	Google Search 🛛 🖌 Go	? Help *
Address Addres	s?viewNan	ie=apps						💌 🔁 Go
ORACLE Enterprise Manager 10g							<u>Setup Logs Help</u> (_oqout
Cluster Topology > Application Server: tstora.Chariot4b.in.i	ibm.com	>						
OC4J: oc4j								
					F	Page Refreshe	ed Aug 28, 2008 4:59:51	PM IST
Home Applications Web Services Per	rformanc	e <u>Administratio</u>	<u>in</u>					
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.	
View Applications								
(Start) (Stop) (Restart) (Undeploy) (Redeploy)	(Deplo	y)						
Select All Select None Expand All Collapse All	_	_						
				Request				
			Active	Processing	Active EJB	Application Defined		
SelectName	Statu	Start Time	Requests	(seconds)	Methods			
All Applications								
ascontrol	Ŷ							
□ ▼ <u>default</u>	Û	Aug 18, 2008 3:35:35 PM IST	0	0.00	0			
ENImageViewer	Û	Aug 28, 2008 4:59:40 PM IST						
ISRA Console	Û	Aug 28, 2008 4:56:02 PM IST	0	0.00	0	n		
Middleware Services								
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					~
							S Local intra	net

3. Select the **ISRA Console** and click **Stop** to stop the selected application. The following message appears:

Oracle Enterprise Manager (oc4jadmin) - OC4J: oc4j - Microsoft Internet Explorer	
Elle Edit View Pavorites Iools Help	
🔇 Back 🔹 🕥 - 😠 😰 🏠 🔎 Search 🤺 Favorites 🧭 🍰 🗟 👻 🛄 💈	
Just dial Select a city 💌 Search By Company/Name 🛩 Enter Your Search 💌 Go 🛛 🤮 Eat out 🙀 Hotels 🗮 Movies 🛛 🔀	Google Search 💌 Go 🛛 🦻 Help
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	
	Quocalintranet

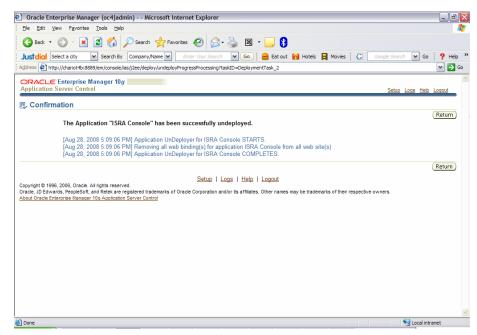
4. Click Yes. The following screen appears:

(] B	ack 🔹 🕥 🕐 💌 📓 🚮 🔎 Search	Favorite	• 🥴 🔗 🎍		▶ 🚯						
	Select a city Search By Company/			🖌 🖸 🤤	Eat out 🛗	-	ovies G	Google Search	❤ Go	?	Help
dress	http://chariot4b:8889/em/console/ias/oc4j/appli	cations?viewNan	e=apps&formattedCo	nfirmationKey=6	18_11bd54964	Ъ				~	∋ G
C41	: oc4j										
640	. 004j					F	Page Refresh	ed Sep 5, 2008	11:59:41	АМІ	IST
H	ome Applications Web Services	Performanc	e <u>Administratio</u>	<u>m</u>			- Jone - Land				
hie na	ge shows the J2EE applications and applica	tion compone	nts (E.IB Modules	WAR Module	e Resource	Adapter Mod	ulas) denlove	ad to this OC4 Lin	nstance		
÷.,		aton compone	ints (LDD Wouldes,	WAR MOUNT	s, resource	nuapter mou	ules) deploye	50 10 1113 0045 1	istance.		
_	Applications										
Start			<u>y</u>)								
Select	All Select None Expand All Collapse All				Description						
					Request Processing		Application				
				Active		Active EJB	Defined				
	Name	Statu	Start Time	Requests	(seconds)	Methods	MBeans				
	V All Applications										
	ascontrol	4									
	▼ <u>default</u>	Û	Aug 18, 2008 3:35:35 PM IST	0	0.00	0					
	<u>FNImageViewer</u>	Û	Aug 28, 2008 4:59:40 PM IST	0	0.00	0					
	ISRA Console	₽.		0	0.00	0					
	Middleware Services										
(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
		incution, Enter			no ne require	a parent app	neution.				
â	ome Applications Web Services	Performanc									

5. Click **Undeploy**. The following message appears:

Oracle Enterprise Manager (oc4jadmin) - Undeploy Application - Microsoft Internet Explorer		_ 7
Ele Edit View Favorites Iools Help		
😋 Back 🔹 🕥 🕑 📓 🟠 🔎 Search 🤺 Favorites 🤣 🍰 🦉 🍹 🍓 🔹 🛄 💲		
Just dial Select a dty 🛛 Search By Company,Name 🗸 Enter Your Search 🔽 Go 🛛 🍃 Eat out 🙀 Hotels 🛱 Movies 🕻 🕻	Google Search 🛛 🖌 Go	? Help
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.

🗐 Orac	le Enterprise Manager (oc4jadmin) - OC4J	: oc4j - Micı	rosoft Internet Ex	plorer					_ 7 🛛
Eile E	dit ⊻jew Favorites <u>T</u> ools <u>H</u> elp								1
🕞 Ba	ick 🝷 🕥 🕤 💌 😰 🚮 🔎 Search	쑷 Favorites	• 🥝 🔗 🍓	× •	3				
	Select a city Y Search By Company/N		nter Your Search	- 60 🔒	Eat out 🔛	Hotels 📙 M	ovies G	Google Search 🛛 🖌 Go	? Help '
A <u>d</u> dress	http://chariot4b:8889/em/console/ias/oc4j/applica	ations							🛩 🔁 Go
	CLE Enterprise Manager 10g							<u>Setup Logs Help</u>	Logout
Cluster 1 OC4J:	Topology > Application Server: tstora.Chariot4 : oc4j	b.in.ibm.com	>						
		D (F	Page Refresh	ed Aug 28, 2008 5:09:15	PMIST
Ho	ome Applications Web Services	Performanc	e <u>Administratic</u>	<u>n</u>					
Start	All Select None Expand All Collapse All		y) Start Time	Active Requests		Active EJB			Ξ
	All Applications								
	ascontrol	Ŷ					11		
	▼ <u>default</u>	Û	Aug 18, 2008 3:35:35 PM IST	0	0.00	0			
	ENImageViewer	Û	Aug 28, 2008 4:59:40 PM IST	0	0.00	0	11		
	Middleware Services								
a	f you stop a parent application (such as the d application. Similarly, if you start a child appli- ome Applications Web Services		prise Manager auto	omatically sta				ons that depend upon the	parent
	reprisedents trop comoco								
)			0.4	1.11212-1-1-2				S Local intra	vet
2								S Local Intra	nec

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 ISRAConsole -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>
<!-- Added by IBM for caching of groups only-->
    <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>
   <!-- Added by IBM for selective metadata cache refresh-->
    <config-property>
      <description>Selective metadata refresh(0-No 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=filenet,ou=people,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 = 100</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>Set this flag to true if your application displays
the dates returned from ISRA in GMT Timezone</description>
      <config-property-name>GMTEnabled</config-property-name>
      <config-property-type>java.lang.Boolean</config-property-type>
      <config-property-value>false</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-</pre>
mechanism-type>
  <credential-
interface>javax.resource.security.PasswordCredential</credential-
interface>
    </authentication-mechanism>
    <reauthentication-support>false</reauthentication-support>
  </resourceadapter>
</connector>
```

oc4j-ra.xml

```
<?xml version="1.0"?>
<!DOCTYPE oc4j-connector-factories PUBLIC "-//Oracle//DTD Oracle
Connector 9.04//EN" "http://xmlns.oracle.com/ias/dtds/oc4j-connector-
factories-9_04.dtd">
```

FileNet"/>	<config-property name="domainName" value="DemoIS"></config-property> <config-property logginglevel"="" name="organizationName" value="0"></config-property>
	<config-property name="loggingMode" value="3"></config-property>
	<config-property name="pageBufferSize" value="64"></config-property>
	<config-property name="cacheRefreshInterval" value="30"></config-property>
	<config-property name="productName" value="IBM FileNet</td></tr><tr><td>Image</td><td></td></tr><tr><td></td><td>Services Resource Adapter"></config-property>
	<config-property name="productVersion" value="ISRA3.4.0
Enterprise"></config-property>
	<config-property name="logFileName" value="ISRA.log"></config-property>
	<config-property name="logFileSize" value="5"></config-property>
<td>nector-factory></td>	nector-factory>
<td>ector-factories></td>	ector-factories>

Notices

Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing

IBM Corporation

North Castle Drive

Armonk, NY 10504-1785

U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation

Licensing

2-31 Roppongi 3-chome, Minato-ku

Tokyo 106-0032, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation

J46A/G4

555 Bailey Avenue

San Jose, CA 95141-1003

U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.

Trademarks

• IBM is a registered trademark of International Business Machines Corporation in the United States, other countries, or both.

- Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.
- Cell Broadband Engine is a trademark of Sony Computer Entertainment, Inc. in the United States, other countries, or both and is used under license there from.
- Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.
- Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.
- Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.
- UNIX is a registered trademark of The Open Group in the United States and other countries.
- Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.
- ITIL is a registered trademark, and a registered community trademark of the Office of Government Commerce, and is registered in the U.S. Patent and Trademark Office.
- IT Infrastructure Library is a registered trademark of the Central Computer and Telecommunications Agency, which is now part of the Office of Government Commerce.
- Other company, product, or service names may be trademarks or service marks of others.

Index

AllowAnonymousUser, 19, 24 CacheRefreshInterval, 19, 21 Changing ISRA Specific Parameters, 19 Changing ISRA Specific Parameters for LDAP, 44 ClientCodepage, 20, 24 Command Line Administration, 33, 38 Configurable ra.xml Properties, 19 Configuring 10g-Specific Parameters, 25 Configuring and Deploying ISRA Console and Sample Application, 28 Configuring Deployed ISRA, 18 Configuring Multiple IS Servers with ISRA, 27 Configuring Sample Application, 28 Conventions Used in the Document, 7 Deploying IBM FileNet Image Viewer in Standalone Environment, 35 Deploying ISRA, 9 **Deploying ISRA Console and Sample** Application, 30 Deploying ISRA.rar, 9, 30, 35, 45, 48, 49 **Deployment Requirements**, 8 DeploymentInstance, 18, 19, 23 **Disabling NCH Broadcasts**, 53 DomainName, 19, 20 Enabling Quick Start Feature, 39 Explanation for Terminal name and ISRALock folder, 17 GMTEnabled flag, 25 Graphical Administration, 49 Hardware Requirements, 8

IBM FileNet Image Viewer Quick Start Feature, 39 InherentLogin, 19 ISLocale, 20, 25 **ISRA** Configuration, 18 ISRA Console, 28 **ISRA** Deployment, 8 Known Issues in the Quick Start Feature, 40 LDAP Configuration, 42 LdapImplClassName, 19, 22 LdapImplClassString, 19, 22 LogFileName, 19, 21 LogFileSize, 19, 22 LoggingLevel, 19, 20 LoggingMode, 19, 20 Mandatory Requirements for ISRA, 8 Mapping Existing LDAP Server Users to IS, 42 maxConnections, 26 minConnections, 26 oc4j-ra.xml, 57 OrganizationName, 19, 20 PageBufferSize, 19, 21 PCHLogging, 19, 23 RPCLogging, 19, 24 scheme, 26 Software Requirements, 8 Testing Sample Application, 41 Undeploying IBM FileNet Image Viewer, 52 Undeploying ISRA, 45 Undeployment, 45 Using the ISRA Console, 33 waitTimeout, 27