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Image Services Resource Adapter

Installation and Deployment Guide

For BEA WebLogic

Release 3.2.1

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About This Manual

This manual provides information about installing and configuring Image Services Resource Adapter (ISRA) version 3.2.1 on BEA WebLogic 8.1 platform.

Conventions Used In the Document

The table lists the formatting conventions used in this document.

Convention	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

Education

FileNet provides various forms of instruction. Please visit the Global Learning Services in FileNet's Service and Support area at <u>www.filenet.com</u>.

Related References

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

<ISRA-home>\ISRA321\FNImageViewer\docs

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

<ISRA-home>\ISRA321\SystemManager\docs

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1 ISRA Installation

This document describes how to install, deploy and configure FileNet Image Services Resource Adapter (ISRA) version 3.2.1 on BEA WebLogic Server 8.1 platform.

ISRA Overview

Integration with existing Enterprise Information Systems (EIS) is the key to success in business moving towards an e-business strategy.

The Java 2 Enterprise Edition (J2EE) Connector Architecture defines a standard architecture to connect the J2EE platform with the heterogeneous EIS's.

ISRA is a system-level software driver compliant with the J2EE Connector Architecture version 1.0. It is used by a Java application component or client to connect to FileNet Image Services (IS).

ISRA provides an alternative to IDM Web Services for IS customers. In addition, it provides a Web solution that does not require Microsoft technology or product support.

ISRA Package Overview

ISRA is bundled into a single package called the Resource Adapter Module, which contains all the necessary files and information for the correct deployment on supported Application Server.

ISRA is available in two editions:

- View edition: Supports ISRA Read-only interactions
- Enterprise edition: Supports additional interactions that allow creation of documents and folders, and update of their properties. User can also print/fax the documents.

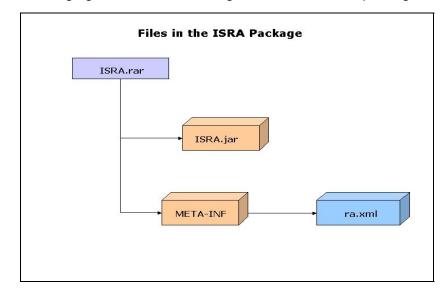
Resource Adapter Module

The contents of the Resource Adapter Module are:

- Jar file that consists of ISRA class library.
- Deployment descriptor (XML file) that defines the run-time behavior of ISRA.

Structure of the ISRA Package

The following figure illustrates a listing of files in the ISRA package:



Installing ISRA

ISRA is installed from an executable installer file. The steps for installation are:

- **Note** The screen shots shown in this guide (taken on Windows Server, which includes both 2000 and 2003 Servers) may look slightly different on your system, depending on the platform version, settings etc.
- 1. Mount CD-ROM

On UNIX:

Perform this step only if CD-ROM device is not already mounted. Note that you must have the root user privileges to perform these tasks. Load the ISRA CD into the drive, open a terminal window and create the /cdrom directory using the following command:

mkdir /cdrom

On Sun Solaris 9:

 Using a preferred editor (for example, vi), edit the /etc/vfstab file by adding an entry:

/vol/dev/dsk/c0t2d0/cdrom - /cdrom hsfs 4 - ro

where, /vol/dev/dsk/c0t2d0/cdrom is the CD-ROM device file path, /cdrom is the mount point for the CD and hsfs is the file system format of the CD. Refer to Solaris system manual for more details on mounting devices. On the system prompt, enter # mount /cdrom to mount the CD-ROM.

On IBM AIX 5.1 and 5.2:

At the system prompt enter the following command to mount the CD-ROM:

mount -rv cdrfs /dev/cd0 /cdrom

where /dev/cd0 is the CD-ROM device file path, /cdrom is the mount point for the CD and cdrfs is the file system format of the CD.

On HPUX:

 Using a preferred editor (for example, vi), edit the /etc/pfs_fstab file by adding an entry similar to the following:

/dev/dsk/c2t2d0 /cdrom pfs-rrip xlat=unix 0 0

where /dev/dsk/c2t2d0 is the CD-ROM device file path and /cdrom is the mount point for the CD.

On the system prompt, enter:

pfs_mountd &

pfsd &

On the system prompt enter the following command to mount the CD-ROM:

pfs_mount /cdrom

To ensure that CD-ROM is mounted correctly, on a terminal window, enter # mount.

This lists the CD-ROM device.

On Linux:

Open a terminal window and enter # mount /dev/hdc /mnt/cdrom

where, /dev/hdc is the CD-ROM device file path and /mnt/cdrom is the mount point for the CD. Refer to the Linux system manual for more details on mounting devices.

To ensure that CD-ROM is mounted correctly, on a terminal window, enter # mount

This lists the CD-ROM device.

On Windows:

Open the explorer, and select the CD-ROM drive that contains the ISRA CD.

- 2. Launch the ISRA installer by executing **setup.bin** on HPUX, Linux, IBM AIX and Solaris or **setup.exe** on Windows Server.
 - On HPUX, Solaris, IBM AIX or Linux server, open a terminal, change directory to the respective folders on CD-ROM drive for

locating **setup.bin**. To do this, enter the following commands on the command prompt:

```
# cd cdrom/<HPUX, Solaris, AIX, Linux>
```

- # ./setup.bin
- On Windows Server, locate **setup.exe** in the Windows folder of the CD-ROM drive. Double-click **setup.exe** to launch the ISRA installer.

The installation screen appears, as shown below:



3. If user clicks **Cancel**, the following dialog box appears:



Click **No** to go back to the previous screen.

4. Click Next to proceed. The following screen appears:

Image Services Resour	ce Adapter 3.2.1 Patch1	<u> </u>
	ISRA 3.2.1 Patch1 User Software License Notice	
	FileNet Notice to End User - A Software License is Required Prior to Use. BEFORE COMPLETING INSTALLATION OR USING THIS SOFTWARE, CAREFULLY READ THIS NOTICE. THIS SOFTWARE IS THE PROPRIETARY INTELLECTUAL PROPERTY OF FILENET CORPORATION (OR ITS SOFTWARE SUPPLIERS) AND USE OF ANY PORTION OF THE SOFTWARE IS ONLY PERMITTED IF YOU HAVE A VALID WRITTEN LICENSE AGREEMENT WITH FILENET. You may have a valid FileNet software license agreement if: 1. Your EMPLOYER and FileNet have entered into a written license agreement, or 2. Your EMPLOYER and an authorized FileNet partner have entered into a written license agreement. If you do not have a valid license agreement to use the software, then terminate the installation of this software, promptly delete any FileNet software files from your computer, and return the software media and all other related items to: FileNet Corporation \hat{O} I have read and understand this software license notice	
	⊙ I do not accept the terms of this software license notice	
InstallShield		
	< <u>B</u> ack <u>N</u> ext ≻ <u>C</u> an	cel

5. Accept the license agreement and click Next to proceed.

Image Services Resources	ce Adapter 3.2.1 Patch1	<u> </u>
InstallShield	Please enter the serial number.	
	< <u>B</u> ack <u>Next ></u>	ncel

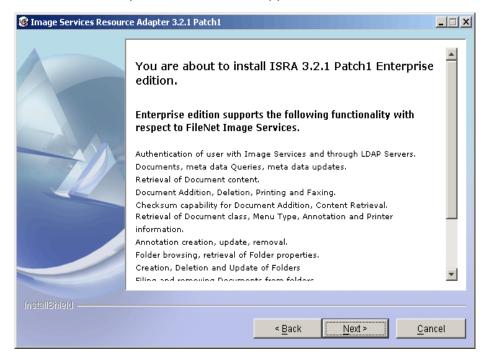
6. Enter the serial number and click **Next** to proceed.

Depending on the serial number, either View edition or Enterprise edition of ISRA will be installed.

• The View edition screen appears, as shown below.



• The Enterprise edition screen appears, as shown below.



7. Click Next to proceed with the installation.

Image Services Resources	e Adapter 3.2.1 Patch1	<u> </u>
	Setup will install ISRA into the following folder, if you want to install in a differ folder and/or drive, type the name of the folder below: <u>D</u> irectory Name: C:tfnswIISRA321 <u>Brow</u>	
InstallShield	< <u>B</u> ack <u>N</u> ext > <u>C</u> ar	ncel

8. Choose the directory to install ISRA and click **Next** to proceed. On UNIX/Linux systems, the default path shown is //fnsw/ISRA321.

Image Services Resources	e Adapter 3.2.1 Patch1	<u> </u>
	Please Review the Following Before Continuing:	
	Image Services Resource Adapter will be installed in the following location: C:\fnswlISRA321	
	for a total size:	
	57 MB	
InstallShield	< Back Next > Can	cel l
	<u>Back</u>	ter

9. Verify the information. If there are any errors, click **Back** to make the necessary changes. Else, click **Next** to proceed with the installation of ISRA. The following screen appears:

🔞 Image Services Resource	e Adapter 3.2.1 Patch1	_ 🗆 X
	Installing Image Services Resource Adapter. Please wait	
	C:tfnswlISRA321\Sample\FNImageViewer.ear 34%	_
InstallShield		
	< <u>B</u> ack <u>N</u> ext > <u>C</u> ar	ncel

10. The following screen appears, when installation completes:

Image Services Resources	ce Adapter 3.2.1 Patch1	- IX
	Congratulations !	
	The InstallShield Wizard has successfully installed Image Services Resourc Adapter. Choose Finish to exit the wizard.	e
InstallShield		
	< <u>B</u> ack Next > Fini	sh

11. Click Finish.

For UNIX platforms, login as root user and execute the following command to unmount the CD-ROM:

umount /cdrom
For Linux, enter # umount /mnt/cdrom

Remove the CD from the drive.

Silent Installation of ISRA

For Silent Installation of ISRA, perform the following steps:

1. Execute the following command on the command prompt to generate a template file:

```
java -cp setup_ISRA321Patch1.jar run -options-template
<name of template file ,e.g., ISRASilent.txt>
```

- 2. Copy the template file and setup_ISRA321Patch1.jar to a desired location.
- 3. Set the following values in template file:
 - -P installLocation = <value> variable to
 -P ISRAProductBean.installLocation = <value>.
 - LicenseBean.selection variable as 1 to accept the license agreement
 - SerialNumberFieldBean.SerialNumber variable to the specific serial number for Enterprise or View edition
 - ISRAProductBean.installLocation variable to the directory under which the installation has to take place in the template file
- 4. Set the path to location containing **setup_ISRA321Patch1.jar** file on command prompt. Execute the following command to start the Silent installation:

java -cp setup_ISRA321Patch1.jar run -silent -options
<Real Path>/ISRASilent.txt

2 ISRA Deployment

ISRA can be deployed on a J2EE 1.3 compliant Application Server. This manual describes the deployment of ISRA on BEA WebLogic 8.1 platform.

Note The installation procedure for BEA WebLogic server 8.1 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 a J2EE 1.3 compliant Application Server in a modular manner.

Deployment Requirements

This section lists the minimum software and hardware requirements for successful deployment of ISRA on BEA WebLogic 8.1 Application Server.

Hardware Requirements

- For additional information on BEA WebLogic, visit <u>http://e-docs.bea.com/platform/suppconfigs/index.html.</u>
- ISRA installation will require at least 80MB free disk space.

Software Requirements

- BEA WebLogic 8.1 installed on HPUX 11i, Sun Solaris 9, LINUX, AIX 5.1 and 5.2 or a Microsoft Windows Server.
- FileNet IS 3.6 SP2 and above

Deploying ISRA

ISRA is deployed using the WebLogic server administration console. There are two ways of deploying the Resource Adapter on WebLogic 8.1:

- Deploying ISRA.rar file
- Deploying exploded archive files

Deploying ISRA.rar

To deploy the ISRA.rar file:

Note WebLogic 8.1 auto-generates weblogic-ra.xml file during deployment of Resource Adapter (ISRA.rar) in archived form. The weblogic-ra.xml deployment descriptor elements and Connector Descriptor attributes (ra.xml) of the Resource Adapter can be manually edited through WebLogic 8.1 console.

- 1. Start the WebLogic Server.
 - On Windows Server, start WebLogic Administration Server from the Start Menu by clicking:

Start \rightarrow Programs \rightarrow BEA WebLogic Platform 8.1 \rightarrow User Projects \rightarrow <domain_name> \rightarrow Start Server.

Alternatively, the Configuration Wizard scripts can also be used to start the Administration Server. When the Configuration Wizard is used to create a domain, the wizard also creates a script that can be used to start an Administration Server for the domain. To use the script, execute the **startWebLogic.cmd** file located at the following path:

<WebLogic Installation Directory>\ user_projects\domains\<domain_name>

 On an UNIX/Linux system, login as the root user and execute the startWebLogic script, as:

cd <WebLogic Installation Directory>/
user_projects/domains/<domain_name>

./startWebLogic.sh

2. To open the administrative console, enter the following WebLogic admin console URL in a browser window: http://hostname:portnumber/console.

Depending on the WebLogic admin server setup, user may be prompted to enter the WebLogic admin user name and password.

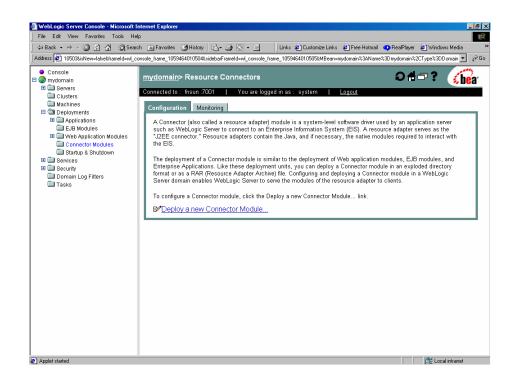
Note The screen shots shown in this section (taken on Windows Server) might look slightly different depending on the browser, server, platform version or settings.

🚈 Cannot find server - Microsoft Internet Explorer	
File Edit View Favorites Iools Help	10
💠 Back 🔹 🤿 🖉 🙆 🖓 🞯 Search 🙀 Favorites 🞯 Media 🧭 🛃 🔹 🎒 🐼 🚽	
Address http://localhost:7001/console	▼ 🖉 Go Links »
Google - 💽 🏀 Search Web - 🚳 🗗 1524 blocked 🚡 AutoFill	Options 🥒
Administration Console BEA WebLogic Server 8.1 WebLogic Server Administration Console Sign in to work with the WebLogic Server domain mydomain Username: Password: Sign In	<u>é béa</u> r
街 Done	Local intranet

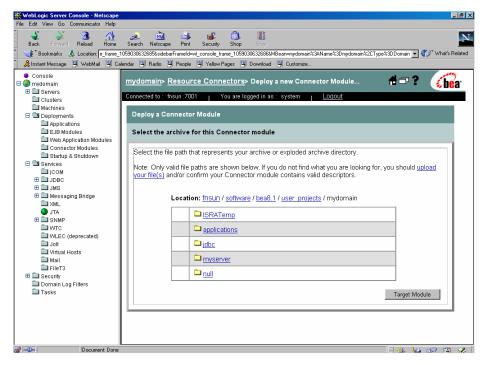
3. The WebLogic admin console sign on screen appears. Enter the WebLogic admin **Username** and **Password**. Click **Sign In** to access the WebLogic admin console. The following screen appears:

File Edit View Favorites Tools He	alp		
🗢 Back 🔹 🤿 🤟 🙆 🖓 Sea	rch 👔 Favorites 🎲 History 🛛 🛃 🛛 🌙	🖸 🔹 📃 🛛 Links 🙋 Customize Links 🧧	🕽 Free Hotmail 🛛 🗛 RealPlayer 🔌 Windows Media
uddress 🙋 10507&isNew=false&frameId=wl_o	console_frame_1059464010508&sidebarFramelo	d=wl_console_frame_1059464010509&MBean=myd	omain%3AN ame%3D mydomain%2CT ype%3DD omain 💌 🕠
Console			
mydomain	Welcome to BEA WebLogic	Server Home	🕇 🗖 ? 🛛 🌾 be
🖽 🧰 Servers	Connected to : fnsun :7001	You are logged in as : system Lo	aout
Clusters		,	
Machines Deployments	Information and Resources		
Applications	Helpful Tools	General Information	
EJB Modules	Convert weblogic.properties	Read the documentation	
🗉 🛄 Web Application Modules	Deploy a new Application	Common Administration Task Desc	criptions
Connector Modules	Recent Task Status	Set your console preferences	
Startup & Shutdown Services	Domain Configurations		
Geruite Security	Network Configuration	Your Deployed Resources	Your Application's Security Settings
🗀 Domain Log Filters	Domain	Applications	Realms
Tasks	Servers	EJB Modules	Realits
	<u>Clusters</u>	Web Application Modules Connector Modules	
	Machines	Startup & Shutdown	
		Startup & Shutuown	
	Services Configurations		
	JDBC	SNMP	Other Services
	Connection Pools	Agent	XML Registries
	MultiPools	Proxies	JTA Configuration
	Data Sources	Monitors	Virtual Hosts
	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
	Connection Factories		
	Templates	Connectivity	Messaging Bridge
	Destination Keys	WebLogic Tuxedo Connector	Bridges
	Stores	Tuxedo via JOLT	JMS Bridge Destinations
	Servers	Tuxedo via WLEC	General Bridge Destinations

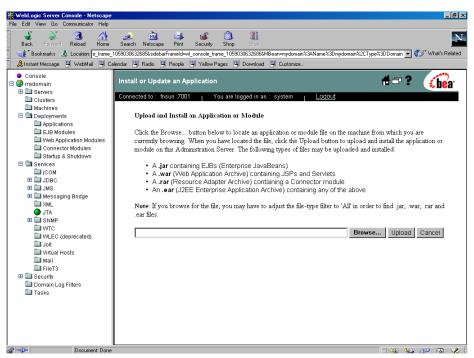
4. Under **Deployments**, click **Connector Modules**. The following screen appears:



- **Note** WebLogic 8.1 does not allow modification of the Connector Descriptor attributes. This requires modification of the attributes in the **ra.xml** file before deployment. This is explained in the Configuring Deployed ISRA section.
- 5. Click **Deploy a new Connector Module** link. The following screen appears:



6. On the **Deploy a Connector Module** screen, click **upload your file(s)** link. The following screen appears:



- 7. Click Browse to select the ISRA.rar file. The ISRA.rar file is located in jar subdirectory of the ISRA installation directory. For example, if user has installed ISRA in C:\fnsw\ISRA (/fnsw/ISRA on UNIX/Linux), the ISRA.rar is located in C:/fnsw/ISRA/jar/ (/fnsw/ISRA/jar on UNIX/Linux) directory.
- 8. Click **Upload** to upload the **ISRA.rar** file. The following screen appears:

WebLogic Server Console - Netscape File File Edit View Go Back Forward Reload Back Forward Reload Hotek & Control Security Solo & Control Security Back Forward Reload Hotek & Location; e.men Mathematic Message WietWietWietWeitwiet	_ B ×
Console Console Trystomain Console Console Trystomain Console)
	- * 2

9. Click on the <server-name>/upload directory and check the radio button corresponding to ISRA.rar. The following screen appears:

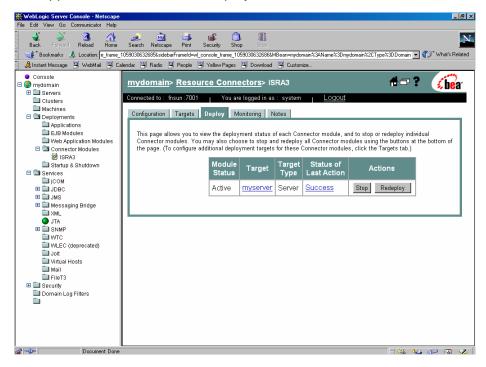
💥 WebLogic Server Console - Netscape
File Edit View Go Communicator Help
and a second sec
Back Forward Reload Home Search Netscape Print Security Shop Grop 👘 🚺 Security Shop Grop 👘 👘 Security Shop Grop 👘 👘 Security Shop Grop State Sta
🔹 postanta Message 🖫 vedenta 🖓 Celenda 🖏 Radio 🖏 People Mages 🖏 Download 🖏 Customize
Console Mydomain> Resource Connectors> Deploy a new Connector Module
🗉 🗋 Servers
Clusters Connected to : insun 2001 You are logged in as : system <u>Loggod</u>
Deployments Deploy a Connector Module
B Applications Select the archive for this Connector module
Web Application Modules
Connector Modules Select the file path that represents your archive or exploded archive directory.
Control of the security Note: Only valid file paths are shown below. If you do not find what you are looking for, you should upload your file(s) and/or confirm your Connector module contains valid descriptors.
Domain Log Filters Divide your mets and/or committy your Connector module contains valid descriptors. Tasks
Location: fnsun / software / bea8.1 / user_projects / mydomain /
myserver / upload
Target Module
Laŭer Moone
utilabel Doormant-Done ⊟ X6 Mit: -(0) m

10. Click Target Module. The following screen appears:

WebLogic Server Console - Netscape File Edit View Go Communicator Help		_ 8 ×
₩ Back Forward Reload Home	🧈 🚵 🐗 📸 🖏 🗱 Search Netscape Print Security Shop 9000	N
👔 🍕 Bookmarks 🥠 Location: e_frame_1	059030632685%sidebarFrameId=wl_console_frame_1059030632686&MBean=mydomain%3AName%3Dmydomain%2CType%3DDomain	👻 🍘 What's Related
🛯 🚴 Instant Message 🖳 WebMail 🖳 Ca	lendar 🖳 Radio 🖳 People 🖳 Yellow Pages 🖳 Download 🖳 Customize	
Console	Module	🕴 💰 bear 🖻
🗆 🍑 mydomain	Connected to : fnsun :7001 You are logged in as : system Logout	
Gervers Clusters		
Machines	Deploy a Connector Module	
🗆 🖼 Deployments		
Applications	Review your choices and deploy	
EJB Modules		
Connector Modules		
🗀 Startup & Shutdown	Deployment Targets	
E Services	Your Connector module will be deployed to the following locations:	
і́ші јсом ⊞ і́ші јовс		
I I JMS	mydomain will be deployed to	
🖽 🚞 Messaging Bridge	Servers - myserver	
XML		
JTA	Source Accessibility	
WTC	Source Accessionity	
WLEC (deprecated)	Since this is a single server environment, no further stage configuration is required. The	
Jott Virtual Hosts	server will access this Connector module's files from the location specified.	
Mail	Identity	
TileT3	idendity	
🗉 🧰 Security	Enter a name to be used to identify this Connector module.	
Domain Log Filters Tasks	Name: ISRA3	
LIASKS	Name: [ISRA3]	
	The name of this Connector module deployment.	
		Daulau
		Deploy
💣 🕪 Document: Done	- 「「」	•≥ d≥ ⊠ 🖋

This screen displays the target server on which the Connector module should be deployed.

11. Under Identity, provide a name for the Connector module. Click **Deploy** to complete ISRA deployment. The server may take some time to complete the deployment process. The following screen appears, after successful deployment:



Deploying Exploded Archive Files

To deploy the ISRA.rar file in exploded form:

Note	The screen shots shown in this section (taken on Windows
	Server) might look slightly different depending on the browser,
	server, platform version or settings.

1. Create a temporary directory ISRATemp and copy ISRA.rar into it. Change the directory to ISRATemp and execute command jar -xvf ISRA.rar

Note WebLogic 8.1 does not auto-generate Weblogic-ra.xml file for deployment of ISRA in exploded form. Therefore, it is necessary to create the Weblogic-ra.xml file before deployment. Refer to <u>Weblogic-ra.xml Deployment Descriptor Elements</u>, for information on the Weblogic-ra.xml DTD.

2. Create the **Weblogic-ra.xml** file using any text editor. The **Weblogicra.xml** file should resemble the following specimen:

```
<!DOCTYPE Weblogic-connection-factory-dd PUBLIC"-
```

//BEA Systems, Inc.//DTD WebLogic 8.1.0 Connector//EN"

```
"http://www.bea.com/servers/wls810/dtd/Weblogic810-ra.dtd">
```

<Weblogic-connection-factory-dd>

<connection-factory-name>ISCF</connection-factory-

name>

<jndi-name>ISCF</jndi-name>

<pool-params>

<initial-capacity>1</initial-capacity>

<max-capacity>10</max-capacity>

<capacity-increment>1</capacity-increment>

<shrinking-enabled>true</shrinking-enabled>

<shrink-frequency-seconds >15</shrink-</pre>

frequency-seconds>

 $\verb+ inactive-connection-timeout-seconds>0$

</inactive-connection-timeout-seconds>

<connection-profiling-enabled>false

</connection-profiling-enabled>

</pool-params>

```
<security-principal-map>
```

```
</security-principal-map>
```

</Weblogic-connection-factory-dd>

The values corresponding to all attributes can be modified as required and saved as **Weblogic-ra.xml** in the META-INF subfolder:

```
ISRATemp\ISRA.jar
\META-INF\ra.xml
\META-INF\Weblogic-ra.xml
```

- 3. Start the WebLogic Server.
 - On Windows Server, start WebLogic Administration Server from the Start Menu by clicking:

Start \rightarrow Programs \rightarrow BEA WebLogic Platform 8.1 \rightarrow User Projects \rightarrow <domain_name> \rightarrow Start Server.

Alternatively, the Configuration Wizard scripts can also be used to start the Administration Server. When the Configuration Wizard is used to create a domain, the wizard also creates a script that can be used to start an Administration Server for the domain. To use the script, execute the **startWebLogic.cmd** file located at the following path:

<WebLogic Installation Directory>\ user_projects\domains\<domain_name>

On a UNIX/Linux system, login as the root user and execute the startWebLogic script, as:

```
# cd <WebLogic Installation Directory>/
user_projects/<domain_name>
```

- # ./startWebLogic.sh
- To open the administrative console, enter the WebLogic admin console URL http://hostname:portnumber/console in a browser window
 - Note Depending on the WebLogic admin server setup, user may be prompted to enter the WebLogic admin user name and password.

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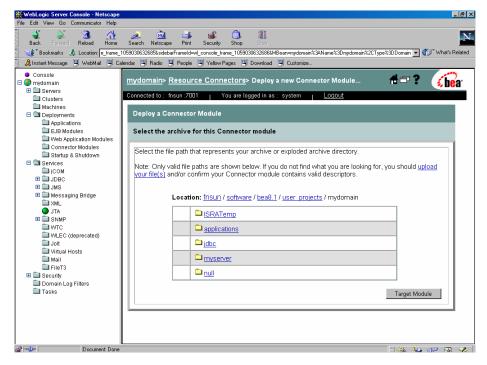
5. The WebLogic admin console sign on screen appears. Enter the WebLogic admin Username and Password. Click Sign In to access the WebLogic admin console. The following screen appears:

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Services ICOM	Convert weblogic.properties	Read the documentation	
	Deploy a new Application	Common Administration Task De	escriptions
🖽 🛄 JMS	Recent Task Status	Set your console preferences	
🖽 🛄 Messaging Bridge		,	
☐ XML ● JTA ⊞ ☐ SNMP	Domain Configurations Network Configuration	Your Deployed Resources	Your Application's Security
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WLEC (deprecated)	Servers	Applications EJB Modules	Realms
🗀 Jolt	Clusters	Web Application Modules	
🔲 Virtual Hosts	Machines	Connector Modules	
🗀 Mail 🗀 FileT3	imacrimes	Startup & Shutdown	
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Tasks -	JDBC	SNMP	Other Services
	Connection Pools	Agent	XML Registries
	MultiPools	Proxies	JTA Configuration
	Data Sources	Monitors	Virtual Hosts
	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
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	Templates	Connectivity	Messaging Bridge
	Destination Keys	WebLogic Tuxedo Connector	Bridges
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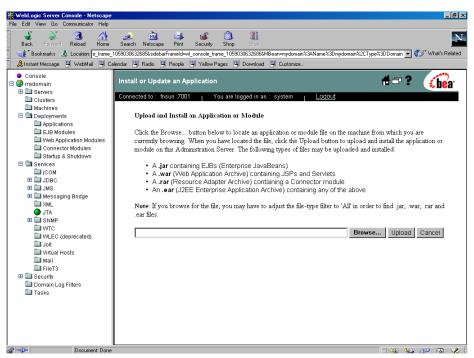
6. Navigate to **Deployments -> Connector Modules**. The following screen appears:

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 Console Console Machines Clusters Applications EB Modules Web Application Modules Connector Modules Statup & Shutdown Services JOPC JOPC JOPC JOPC Messaging Bridge XML JTA SNMP WTC WTC WTC WTC SUMP WTC Joit Virtual Hosts Mail Fier3 Security Domain Log Filters Tasks 	alender Radio People Y Vetwork Page O Developed Lutomize
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- **Note** WebLogic 8.1 does not allow modification of the Connector Descriptor attributes. This requires modification of the attributes in the **ra.xml** file before deployment. This is explained in the Configuring Deployed ISRA section.
- 7. Click the **Deploy a new Connector Module** link. The following screen appears:



8. On the **Deploy a Connector Module** screen, click **upload your file(s)** link. The following screen appears:



- 9. Click Browse to select the ISRA.jar file. The ISRA.jar file will be located in temp directory. For example, if user has extracted ISRA.rar in C:\temp (/tmp on UNIX/Linux), the ISRA.jar is located in C:\temp (/tmp on UNIX/Linux) directory itself.
- **10.** Click **Upload** to upload the **ISRA.jar** file. The following screen appears:

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Macnines Deployments	Deploy a Connector Module	
Applications		
🗀 EJB Modules	Select the archive for this Connector module	
Web Application Modules		
Connector Modules	Select the file path that represents your archive or exploded archive directory.	
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icom	Note: Only valid file paths are shown below. If you do not find what you are looking for, y	rou should
I DBC	upload your file(s) and/or confirm your Connector module contains valid descriptors.	
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11. Create a new directory META-INF in the **<WebLogic Installation** Directory **>\user_projects\<domain-name> \<server-name>** upload directory and copy ra.xml and Weblogic-ra.xml into it.

On Windows Server, enter the command:

copy C:\temp\META-INF <WebLogic Installation Directory>\user_projects\<domain-name>\<servername>\upload\META-INF

On a UNIX/Linux machine, enter the command:

cp /tmp/META-INF <WebLogic Installation Directory>/user_projects/<domain-name>/<servername>/upload/META-INF

12. Click on the **<server-name>/upload** directory and check the radio button corresponding to **upload**. The following screen appears:

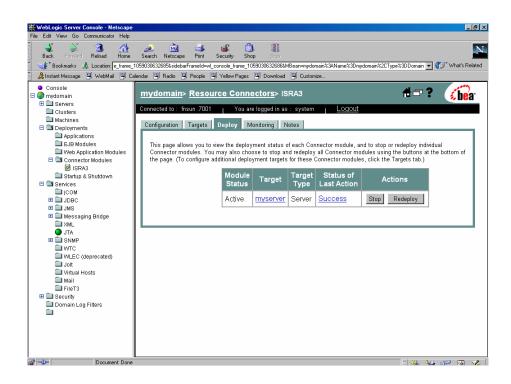
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Connector Modules	Select the file	e path that represents your archive or exploded archive directory.
Gervices Gervices Gervices Gervity Domain Log Filters Tasks		alid file paths are shown below. If you do not find what you are looking for, you should file(s) and/or confirm your Connector module contains valid descriptors.
		Location: fnsun / software / bea8.1 / user_projects / mydomain / myserver
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		€ 🖻 <u>upload</u>
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13. Click Target Module. The following screen appears:

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🗉 🛄 Servers		
Clusters	Deploy a Connector Module	
macinites Deployments		
Applications	Review your choices and deploy	
EJB Modules		
Web Application Modules		
Startup & Shutdown	Deployment Targets	
🗆 🔄 Services	Your Connector module will be deployed to the following locations:	
ісом	Total Controctor module will be deployed to the following locations.	
	mydomain will be deployed to	
🗄 🥅 Messaging Bridge	Servers - myserver	
AML	Servera - Injustitor	
JTA		
SNMP MTC	Source Accessibility	
WLEC (deprecated)	Since this is a single server environment, no further stage configuration is required. The	
Dott .	server will access this Connector module's files from the location specified.	
C Virtual Hosts	· · ·	
🛄 Mail 🛄 FileT3	Identity	
Security	Enter a name to be used to identify this Connector module.	
Domain Log Filters		
Tasks	Name: ISRA3	
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This screen displays the target server on which the Connector module should be deployed.

14. Under Identity, provide a name for the Connector module. Click **Deploy** to complete ISRA deployment. The server may take some time to complete the deployment process. On completion, the following screen appears:



Mandatory Requirements for ISRA 3.2.1

The mandatory requirements for ISRA 3.2.1 include:

- 1. Include ISRA.jar, listener.jar and log4j-1.2.8.jar in the classpath of WebLogic server. To include the jar files in classpath:
 - I. Navigate to the folder containing Application Server.
 - II. Click User_projects > domains > mydomain.
 - III. For Windows, open **startWebLogic.cmd** and for UNIX/Linux, open **startWebLogic.sh** in a text editor.
 - IV. Include ISRA.jar, listener.jar and log4j-1.2.8.jar in the classpath.
- 2. Include the folder in which **WinPerfMon.dll** is present in the system path in case of Windows operating system. In UNIX/Linux, this file is not required.

3 ISRA Configuration

This chapter describes the configuration of ISRA, deployed on BEA WebLogic 8.1 Application Server.

Configuring Deployed ISRA

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

Note WebLogic 8.1 does not allow modification of the Connector Descriptor attributes. This requires modification of the attributes in the **ra.xml** file before deployment.

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

To edit the ISRA deployment descriptor:

- 1. Remove all files from **ISRATemp** directory and copy **ISRA.rar** in it. Change directory to ISRATemp.
- 2. 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 the favorite text editor. The configurable properties that may be set (modified) in ra.xml are:
 - DomainName
 - OrganizationName
 - LogFileName
 - LoggingLevel
 - LoggingMode
 - LogFileSize
 - PageBufferSize

- CacheRefreshInterval
- LdapImplClassName
- LdapImplClassString
- JmsConnectionFactory
- JmsQueueName
- PortNumber
- MachineName
- AppServerInitialContext
- EnableLoggingFileName
- CacheUser/CacheUserPassword
- DeploymentInstance

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

Note It is mandatory to configure DomainName and OrganizationName properties, as the ISRA needs these properties to access the IS. The other properties are optional. DomainName and OrganizationName are the second and third part of the three-part IS library name (for example, DefaultIMS:FileNetIS:FileNet).

- **4.** After making the modifications, save the **ra.xml** file in the same folder.
- 5. 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 Entities

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

- <u>DomainName</u>
- OrganizationName
- LogFileName
- LoggingLevel
- LoggingMode

- LogFileSize
- PageBufferSize
- <u>CacheRefreshInterval</u>
- <u>CacheUser/CacheUserPassword</u>
- DeploymentInstance
- PCHLogging
- <u>AllowAnonymousUser</u>
- RPCLogging

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 your IS.

OrganizationName

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

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 disk.

LoggingLevel

This is an integer representing the amount of log information to be generated. The valid values are:

Logging Level	Description
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 to 0. LoggingLevel can be increased if a problem is encountered while accessing ISRA through the application.

LoggingMode

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

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

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

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.log** is renamed to **ISRA.log_1**, and a new file **ISRA.log** is created. The default value of LogFileSize is 5MB.

PageBufferSize

This is an integer value specified in kilobytes (KB). PageBufferSize specifies the chunk size that ISRA will use 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.

CacheRefreshInterval

This is an integer value specified in minutes. ISRA stores meta-data information like Document class, Indices and 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.

CacheUser/CacheUserPassword

This is the name of the user that will be used to configure ISRA Cache. If there is no value set for this parameter then ISRA will use the name and password of the first user who logs into IS through ISRA to build its Cache.

Note The CacheUser name has to be either empty or a valid IS user name otherwise access to the IS through ISRA will fail.

DeploymentInstance

This is the instance number of ISRA that is being deployed. It is a user defined number between 1 and 10. The default value for this parameter is 1 when none is specified. The maximum is 10, which means that 10 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, you have 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.

PCHLogging

This is a String parameter to enable/disable PCH logging in ISRA. The default value for this is disabled.

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	Exceptions and Warnings
1	Info
2	Debug Level

Click **RPCLogging**. The default Value of RPCLogging is 1. It can be changed to other valid values according to the operational environment.

Configuring WebLogic-Specific Entities

Once the configurable properties are set for ISRA, parameters specific to the WebLogic Application Server, need to be configured. The configurable properties for a Connector in WebLogic are:

- Initial Capacity
- Max Capacity
- Capacity Increment
- Shrinking Enabled
- Shrink Frequency Seconds

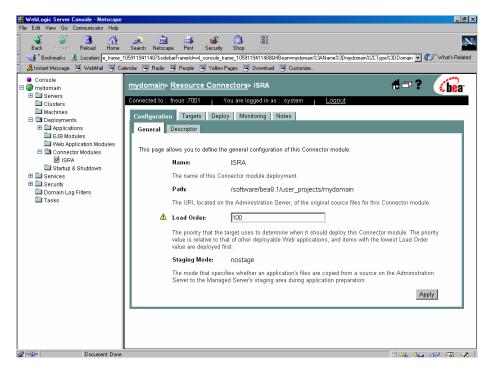
- Highest Num Unavailable
- Highest Num Waiters
- Inactive Connection Timeout Seconds
- Connection Reserve Timeout Seconds
- Test Frequency Seconds
- Connection Creation Retry Frequency Seconds

To configure Weblogic parameters:

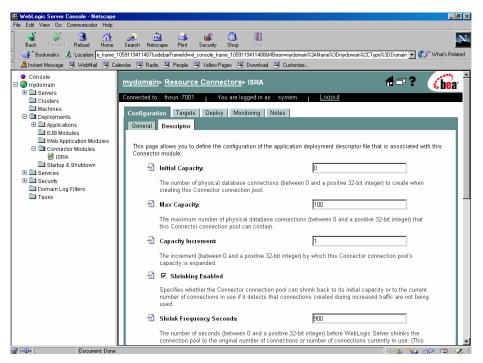
1. Navigate to **Deployments -> Connector Modules**. The following screen appears:

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Clusters	Connected to : fnsun :7001	You are logged in as : system	Logout
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Deployments	Helpful Tools	General Information	
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🖿 Tasks	Servers	EJB Modules	
	Clusters	Web Application Modules	
	Machines	Connector Modules	
		Startup & Shutdown	
	Services Configurations		
	JDBC	SNMP	Other Services
	Connection Pools	Agent	XML Registries
	MultiPools	Proxies	JTA Configuration
	Data Sources	Monitors	Virtual Hosts
	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
	Connection Factories		
	Templates	Connectivity	Messaging Bridge
	Destination Keys	WebLogic Tuxedo Connector	Bridges
-Document: Done		The second second to	

2. Under Connector Modules, click ISRA. The following screen appears:



3. Under the **Configuration** tab, click **Descriptor**. The following screen appears:



A description of each attribute is given below:

 Initial Capacity: Defines the initial number of Managed Connections, which WebLogic Server attempts to obtain on creating a ConnectionFactory. Default value is 0. It is suggested to keep the default value unless user wants to configure Container managed sign-on on this ConnectionFactory.

- Max Capacity: Represents the maximum number of Managed Connections that can be created by the ManagedConnectionFactory. After this number is reached, no new connections are created and the requester waits for the ConnectionTimeout or a ResourceAllocationException thrown by WebLogic. Maximum Connections must be greater than or equal to Minimum Connections.
- **Capacity Increment**: Represents maximum number of additional Managed Connections that WebLogic Server attempts to obtain during resizing of the maintained connection pool
- **Shrinking Enabled**: Specifies whether the connection pool should reclaim unused managed connections to control system resources
- Shrink Frequency Seconds: Specifies the amount of time the connection pool Manager will wait between attempts to reclaim unused managed connections
- **Highest Num Unavailable**: Specifies the maximum number of connection requests that can concurrently block threads while waiting to reserve a connection from the connection pool
- **Highest Num Waiters**: Specifies the maximum number of connections in the connection pool that can be made unavailable for use by an application
- Inactive Connection Timeout Seconds: Specifies the amount of time the connection pool Manager will wait before attempting to reclaim unused managed connections.
- Connection Reserve Timeout Seconds: Specifies the number of seconds after which a call to reserve a connection from the pool will timeout
- **Test Frequency Seconds**: Specifies the number of seconds between two consecutive WebLogic Server tests for unused database connections. Connections that fail the test are closed and reopened to re-establish a valid physical database connection.
- Connection Creation Retry Frequency Seconds: Specifies the number of seconds between two consecutive trials of the connection pool to establish connections to the database
- 4. Apply the changes, explained above for the changes to take effect.

Note Include the client_helper.jar file in the CLASSPATH of the WebLogic Server before accessing ISRA from an application client.

Configuring Multiple IS Servers with ISRA

To configure ISRA for accessing multiple IS servers:

- 1. Deploy a new ISRA instance for each IS that user wants to connect. Before deploying the second (and subsequent) ISRA, rename the ISRA.rar file. 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.

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 mysever Custers Machines Deployments E. JAB Modules Connector Modules SFRA SFRA1 Startup & Shutdown Services Domain Log Filters Tasks 	Configuration Monitoring A Connector (also called a resource adapter) module is a system-level software driver used by an application server such as vebLogic Server to connect to an Enterprise Information System (EIS). A resource adapter serves as the "JZEE connector." Resource adapters contain the Java, and if necessary, the native modules required to interact wit the EIS. The deployment of a Connector module is similar to the deployment of Web application modules. EJB modules, and Enterprise Applications. Like these deployment units, you can deploy a Connector module in an exploded directory format or as a RAR (Resource Adapter Archive) file. Configuring and deploying a Connector module in a WebLogic Server domain enables WebLogic Server dowain enables WebLogic Server dowain. Image: Deploy a new Connector Module Deploy a new Connector Module Customize this view Image: Nonector Module Image: Nonector Module Deploy a new Connector Module Image: Nonector Module Image: Nonector Module Image: Nonecoon Nonector Module	lh J
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3. Configure the new ISRA and enter a DomainName and OrganizationName before deployment, for connecting to the target IS.

4 Configuring and Deploying ISRA Sample Application

The ISRA Sample Application is packaged as an Enterprise Application Archive File (**ISRASample.ear**). It consists of:

- A Web module (SampleWEB.war)
- Deployment Descriptor (Web.xml)

The ISRA Sample Application can be deployed on a J2EE 1.3 compliant Application Server. This chapter illustrates the deployment and configuration of the Sample Application on BEA WebLogic 8.1 platform using the WebLogic Administration Console.

Note ISRA product media contains 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.

Configuring Sample Application

This section describes how to deploy the Sample Application on BEA WebLogic 8.1 Server to access ISRA in a managed environment. It is assumed that ISRA is deployed and configured for the target IS.

- 1. Extract ISRASampleWEB.war from ISRASample.ear.
- 2. Extract web.xml from ISRASampleWEB.war
- 3. Change param-value for "LIBRARY_NAMES" to

<param-value>ISCF</param-value>

Note The LIBRARY_NAMES property is mandatory and it should be the same as the **JNDI Binding Path** specified for the configured ISRA ConnectionFactory.

LIBRARY_NAMES is the name of the ConnectionFactory. Provide the JNDI name of the ISRA Connection Factory that the ISRA Sample Application uses to access IS resources.

The default value of LIBRARY_NAMES is ISCF. It can be changed according to the operational environment. Multiple Connection Factory names can be specified by using comma (,) as a separator. For example: ISCF, ISCF2.

- 4. To enable extended annotation functionality modify the following parameters in **web.xml**:
 - i. Change env-entry-value for "DOCCLASSNAME" to the document class configured in the IS for digital signatures.

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

ii. 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**:
 - i. 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>
```

ii. 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 ISRASample.ear

Deploying the Sample Application

This section describes how to deploy the Sample Application on a WebLogic Server to access ISRA in a managed environment. It is assumed that ISRA is deployed and configured for the target IS.

Before deploying the Sample Application through the WebLogic Server Administration Console, ensure WebLogic Administration Server is running, else, start the Administration server as explained in the <u>Deploying ISRA</u> section.

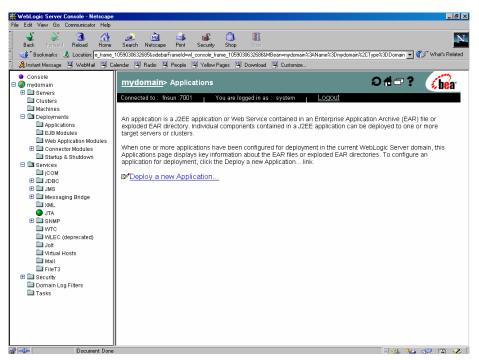
 Start the administrative console. Open a browser window and enter the WebLogic admin console URL http://hostname:portnumber/console.

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2. The WebLogic admin console sign on screen appears. Enter the WebLogic admin Username and Password. Click Sign In to access the WebLogic admin console.

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🖿 Tasks	Connection Pools	Agent	XML Registries
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	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
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3. Navigate to **Deployments -> Applications**. The following screen appears:



4. Click Deploy a new Application. The following screen appears:

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Connector Modules	Select the file path that represents your archive or exploded archive directory.	
Startup & Shutdown		
icom	Note: Only valid file paths are shown below. If you do not find what you are looking for,	you should
E DBC	upload your file(s) and/or confirm your application contains valid descriptors.	
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5. Click upload your file(s) link. The following screen appears:

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Connected to : fisun :7001 You are logged in as : system Logout Machines Machines Machines Connected Modules Applications EdB Modules Click the Browse button below to locate an application or module file on the machine from which you are currently browsing. When you have located the file, click the Upload button to upload and install the application or module on this Administration Server. The following types of files may be uploaded and installed: A jar containing EJBs (Enterprise JavaBeans) A jar containing EJBs (Enterprise Application Archive) containing ary of the above A war (Web Application Archive) containing ary of the above A met (J2EE Enterprise Application Archive) containing ary of the above Note: If you browse for the file, you may have to adjust the file-type filter to 'All' in order to find jar, war, rar and ear files. Meal Filer3 B Security Common Log Filters	🗆 🌏 mydomain	Install or Update an Application	🗃 🗖 📍 🅡 🎁
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6. Click Browse to select the ISRASample.ear. The ISRASample.ear file is located in sample subdirectory of ISRA installation directory. For example if user has installed ISRA in C:\fnsw\ISRA (/fnsw/ISRA on UNIX/Linux), the ISRASample.ear can be found in C:\fnsw\ISRA\sample (/fnsw/ISRA\sample (/fnsw/ISRA/sample on UNIX/Linux) directory. Click Upload to upload the sample .ear file.

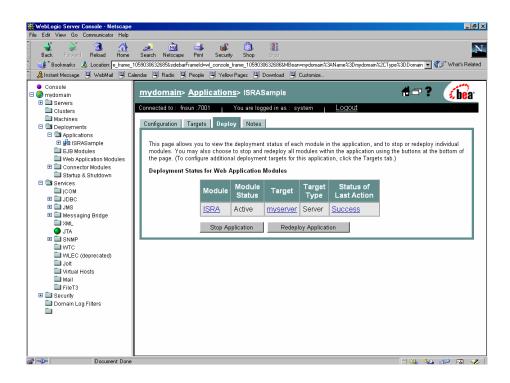
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7. Select the radio box corresponding to ISRASample.ear file, and click Continue.

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jcom Your application will be deployed to the following locations:	
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Source Accessibility	
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Joit Since this is a single server environment, no further stage configuration is required. The server will access this application's files from the location specified.	
FileT3 Identity Security	
Domain Log Filters Enter a name to be used to identify this application.	
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The name of this application deployment.	
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The screen will show the Target Application Server on which the ISRA Sample Application will be deployed, in the WebLogic administrative domain.

8. Click **Deploy** to finish the deployment of the ISRA sample application.



Deployment of the FileNet Image Viewer

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

Before deploying FileNet Image Viewer application through the WebLogic Server Administration Console, ensure that the WebLogic Administration Server is running, else, start the Administration as explained in the beginning of <u>Deploying ISRA</u> section.

To deploy FileNet Image Viewer:

 Start the administrative console. Open a browser window and enter the WebLogic admin console URL <u>http://hostname:portnumber/console.</u>

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2. Enter the WebLogic admin Username and Password, and click Sign In to access the WebLogic admin console.

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	MultiPools	Proxies	JTA Configuration
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	Data Source Factories	Log Filters	Domain-wide Logging
		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
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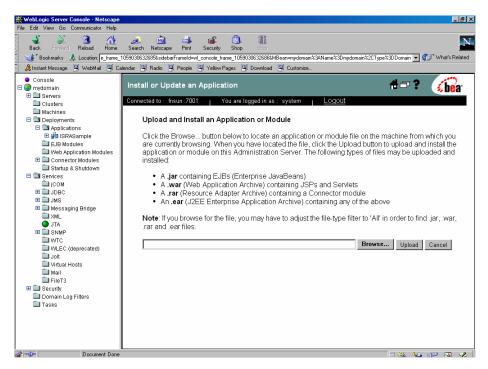
3. Navigate to **Deployments -> Applications**. The following screen appears:

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4. Click **Deploy a new Application**. The following screen appears:

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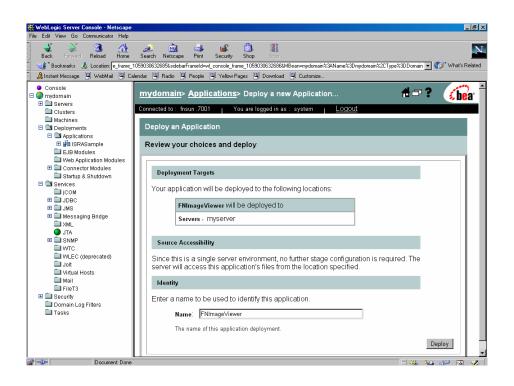
5. Click upload your file(s) link. The following screen appears:



 Click Browse to locate the FNImageViewer.ear, to deploy the FileNet Image Viewer in the target environment. After selecting FNImageViewer.ear file, click Upload. The following screen appears:

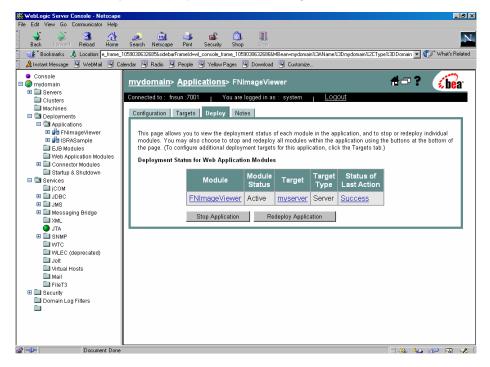
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🖽 👹 ISRASample	Select the archive for this application	
Web Application Modules		1
🗉 🚞 Connector Modules	Select the file path that represents your archive or exploded archive directory.	
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7. Click the radio button corresponding to **FNImageViewer.ear** and click **Continue**. The following screen appears:



Note Ensure that **FNImageViewer.ear** application is installed on the same Application Server where the Sample Application is installed.

8. Click Deploy, to deploy the FileNet Image Viewer.



Testing Sample Application Deployment

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.

The Web application context_root is case sensitive. On a Weblogic Server, the default port number is 7001. The default context_root of the Sample Application is ISRA.

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ISRA 3.2.1 Sample Application	÷ بۇ يە
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Disclaimer: This sample application is intended solely for illustrative purposes, and you should not expect this sample application to perform useful work, o deployment. This sample application is to be used strictly as reference material.	r to be used for production
e) Done	Cocal intranet

2. Enter valid **Username** and **Password** for the configured IS (check configured ConnectionFactory for IS details) and click **Logon**.

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

5 LDAP Configuration

In addition to direct IS logging, ISRA 3.2.1 also supports LDAP Authentication by third party Servers.

It is necessary to map users present on the LDAP Server to 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.

FileNet provides two utilities - Idap_export and Idap_import, to map existing users on the LDAP Server to the IS. These utilities are part of the IS package and must be executed on the machines running the LDAP Server and the IS.

The ldap_export utility is used to export usernames on the LDAP Server to an xml file. While, the ldap_import utility imports usernames that have been mapped to the xml file and creates corresponding users on the IS.

It is mandatory that the ldap_import algorithm and the xml file be present on the same machines, where IS exists. The ldap_import algorithm uses a hashing algorithm to generate user passwords for the IS.

Mapping Existing LDAP Server Users to IS

To configure user IDs in a 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 remaining 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.
t <ldap server="" type=""></ldap>	Required value for server type:
	msft – Microsoft Active Directory
	sun – Sun One Directory (iPlanet)
	nov – Novell eDirectory(NDS).
	ibm – IBM Directory.
b <basedn></basedn>	LDAP Base DN, optional value.
g <grouplist filename=""></grouplist>	Group list file for input, optional value.
<pre>o <xml filename="" output=""></xml></pre>	XML output filename, optional value.
l <log filename=""></log>	Log Filename to use, optional value.
i	Check for special characters on <id> tags only</id>
е	Remove all escape characters – '\' .
k	Use paged results. Windows to AD only
Z	Use secure socket connection
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.
```

Example command lines:

• Sun One directory (iPlanet) server:

```
ldap_exp -s SunSrvr1 -d "cn=Directory Manager" -w
":/,.++=" -t sun -b "dc=iPlanet, dc=com"
```

• Microsoft Active Directory (AD) server:

```
ldap_exp -s Win2KSrvr1 -d
"CN=Administrator,CN=Users,DC=win2ksrvr1,DC=com" -
w
"::/,.++=" -t msft -b "dc=win2ksrvr1,dc=com"
```

• Novell eDirectory(NDS) server:

```
ldap_exp.exe -s NovSrvr1 -d "cn=Admin, o=server" -
w
":/,.++="-t nov -b "o=wa"
```

IBM Directory server:

```
ldap_exp -s IBMSrvr1 -d "Cn=Administrator" -w
":/,.++=" -t
ibm -b "dc=ibmsrvr1, dc=com"
```

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

For example, to import user entries from XML file:

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'. If Username and password are not specified in the command, it prompts for username and password.
- **5.** The FileNet users created will have a password generated from the corresponding user IDs.

Changing ISRA Specific Parameters for LDAP

Configurable ra.xml Entities

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

- LdapImplClassName
- LdapImplClassString

LdapImpIClassName

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

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

In addition, LDAP implementation has been provided for Microsoft Active Directory Server for Windows 2000 and Novell NDS 8.7.3. The value of the property for LDAP implementation for Active Directory is com.filenet.is.ra.fnis.FN_IS_ActiveDirImpl and for Novell NDS 8.7.3 is com.filenet.is.ra.fnis.FN_IS_NovellNDSImpl.

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.
- Port Number LDAP Server's port number used for transactions.
- User Path Directory 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;isra.odc.filenet.com

• For IPlanet

filenetserver;389;uid= user1, ou=ISRA, dc=odc,dc=filenet,dc=com

• For Novell NDS

filenetserver;389;cn=user1, ou= ISRA, o=FileNet

6 Configuring Performance Statistics from ISRA

User can execute an EnablePerformanceLogging interaction to enable or disable the logging of performance statistics of each ISRA interaction. To enable this, configure JMS server, connection factory and JMS queue. The current value of EnablePerformanceLogging interaction will be updated in the file name mentioned by the user while deploying ISRA.

Enabling the performance logging statistics will send the messages to JMS queue, else these messages will not be logged in the JMS queue.

To configure the performance statistics, perform the following:

- 1. Configure a new JMS server
- 2. Configure a JMS queue
- 3. Configure JMS connection factory

These are explained in detail in the following sections.

Configuring JMS Server

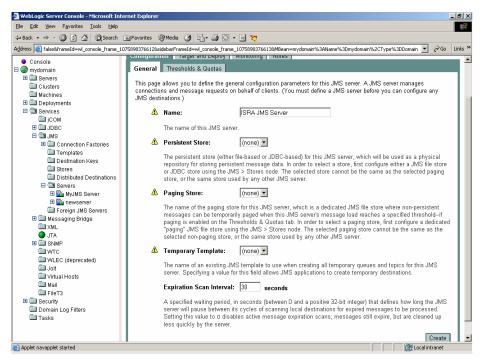
To configure a JMS server:

 On the left pane of the WebLogic 8.1 console, click Services→JMS→Servers. The following screen appears:

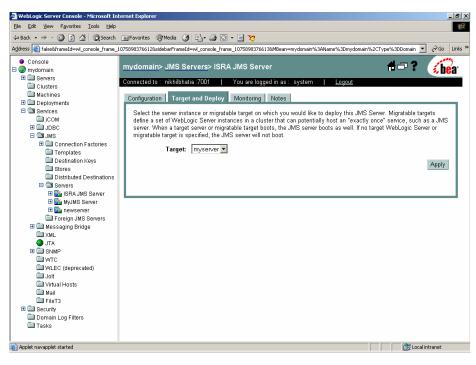
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	This JMS Servers p domain.	age displays key ir	nformation about each JM	IS server that has b	een configured in the cu	rrent WebLogic Server
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Distributed Destinations Servers	Name	Persistent Store	Temporary Template	Bytes Maximum	Messages Maximum	
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🖽 🌇 newserver 🛄 Foreian JMS Servers	newserver	n/a	n/a	-1	-1	ð
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Note User may also use an existing JMS server.

2. Click **Configure a new JMS Server** link. The following screen appears:.



3. Type in a name, in the **Name** field, for the new JMS server configured and click **Create**. The following screen appears:

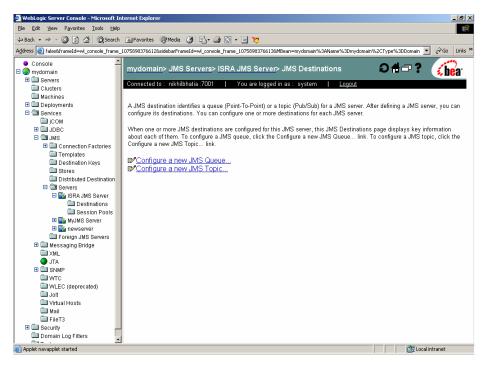


4. Select the target server from the drop down list as seen in the screen shown below. Click **Apply**.

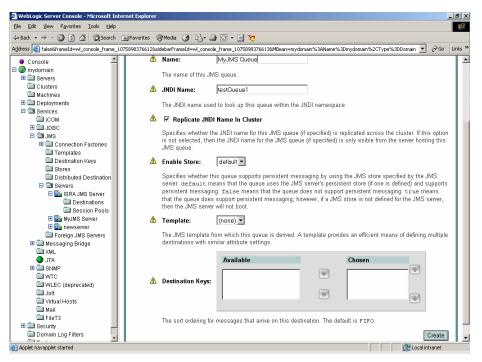
Configure a JMS Queue

To configure a JMS queue:

1. On the WebLogic 8.1 console, navigate to JMS Servers→ ISRA JMS Server→JMS Destinations. The following screen appears:



2. Click Configure a new JMS Queue link. The following screen appears:



3. Type in the Name and JNDI Name of the JMS queue. Click Create.

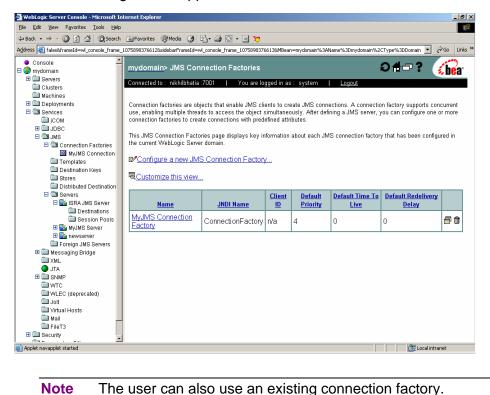
Note The JNDI name of the queue must be the same (also case-sensitive) as in the deployment descriptor (**ra.xml** file).

4. Click Apply.

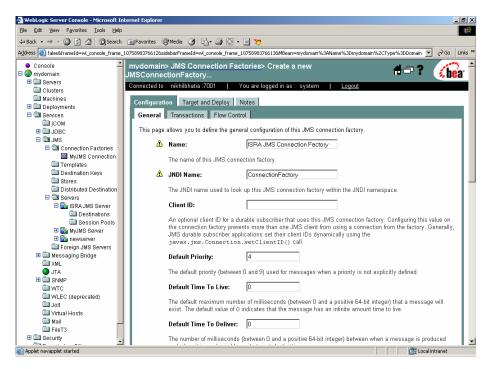
Configure JMS Connection Factory

To configure the JMS connection factory:

1. Navigate to JMS→Connection Factories on the WebLogic console. The following screen appears:

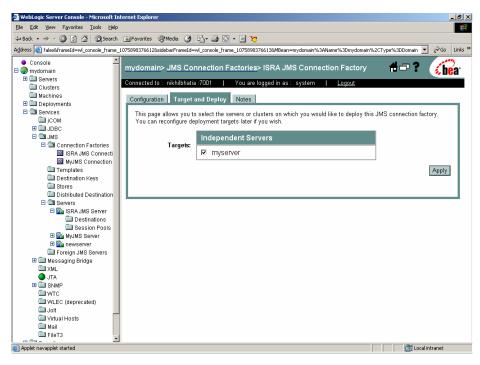


2. Click **Configure a new JMS Connection Factory** link. The following screen appears:



3. Type in the Connection factory name and JNDI name as shown below and click **Create**.

Note The JNDI name of the connection factory must be the same (also case-sensitive) as mentioned in the **ra.xml** file.



4. Select the target server and click Apply.

Configuring ISRA Parameters for Performance Statistics

The following parameters must be configured for EnablePerformanceLogging interaction:

Configuring ra.xml Entities:

JmsConnectionFactory

It is the name of the connection factory configured on the JMS server. The default value is 'ConnectionFactory'.

JmsQueueName

It is the name of the queue configured on the JMS server. The default value is 'testQueue'.

PortNumber

It is the port number on which the WebLogic server is running. The default value is 7001.

MachineName

This is the machine name on which the WebLogic server is running. The default value is 'local host'.

AppServerInitialContext

It is the name of the initial context class for WebLogic server. The default value is 'Weblogic.jndi.WLInitialContextFactory'.

EnableLoggingFileName

This is the name of the file where the current value of PerformanceLogging will be updated. The default value is 'enableJMS_ISCF.properties'.

Note This file must be a properties file.

7 UnDeployment

This section describes undeployment procedure to remove the ISRA and the Sample Application from the WebLogic Server.

UnDeployment of ISRA

To undeploy ISRA ensure that WebLogic admin server is running. If it is not, start the WebLogic Administration Server as explained in the <u>Deploying ISRA</u> section.

The steps to undeploy ISRA using the Administration Console are:

1. To start the administrative console enter the following URL in the Web browser http://hostname:portnumber/console. The WebLogic admin console sign on screen appears, as shown below:

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Administration Console BEA WebLogic Server 8.1	sea r
WebLogic Server Administration Console	
Sign in to work with the WebLogic Server domain mydomain	
Username: system	
Password:	
Sign In	
	Þ

2. Enter Username and Password. Click Sign In to access the WebLogic admin console. The following screen appears:

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JTA III ISNMP	Network Configuration	Your Deployed Resources	Your Application's Security Settings
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	Data Sources	Monitors	Virtual Hosts
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	JMS	Trap Destinations	FileT3
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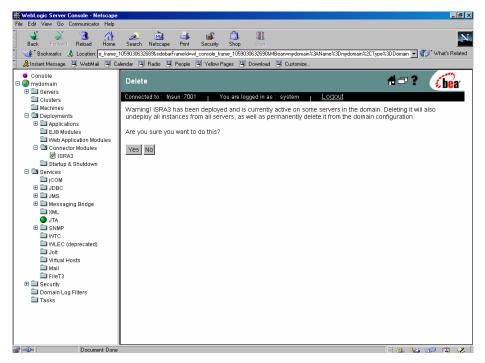
3. Navigate to **Deployments** > **Connectors Modules**. The following screen appears:

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Servers Clusters	Connected to : fnsun :7001	You are logged in as : system L	ogout
Machines	Information and Resources		
Deployments Applications	Helpful Tools	General Information	
EJB Modules	Convert weblogic.properties	Read the documentation	
Web Application Modules	Deploy a new Application	Common Administration Task Des	criptions
Connector Modules	Recent Task Status	Set your console preferences	
Startup & Shutdown	Domain Configurations		
🗆 🖼 Services	Domain Coningulations		Your Application's Security
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	Domain	Applications	Realms
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XML	Clusters	Web Application Modules	
JTA III III SNMP	Machines	Connector Modules	
WTC		Startup & Shutdown	
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	JMS	Trap Destinations	FileT3
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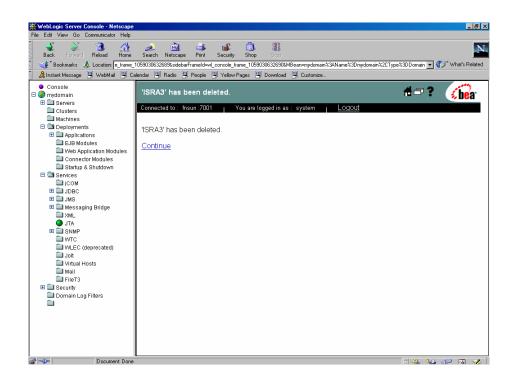
4. Right-click on ISRA in the left pane.

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E SNMP	Define Scoped Role		Connector Modules	
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☐ FileT3		MultiPools	Proxies	JTA Configuration
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		JMS	Trap Destinations	<u>FileT3</u>
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		Templates	Connectivity	Messaging Bridge

5. Click Delete ISRA 3 The Delete screen appears.



6. Click **Yes** to confirm deletion of the ISRA. The screen appears, as shown below:



UnDeployment of the Sample Application

Ensure that WebLogic Administration server is running, else start the WebLogic Administration Server as explained in the <u>Deploying ISRA</u> section.

Note The user must undeploy the previous version of FileNet Image Viewer before deploying the latest version.

The steps to undeploy the Sample Application using the Administration Console are:

1. To start the administrative console, enter the following URL in the Web browser http://hostname:portnumber/console. The WebLogic admin console sign on screen appears, as shown below:

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Administration Console BEA WebLogic Server 8	8.1			be	a.
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2. Enter Username and Password, and click Sign In to access the WebLogic admin console. The following screen appears:

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WLEC (deprecated)	Servers	EJB Modules	
Virtual Hosts	Clusters	Web Application Modules	
Mail	Machines	Connector Modules	
FileT3		Startup & Shutdown	
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Tasks	JDBC	SNMP	Other Services
	Connection Pools	Agent	XML Registries
	MultiPools	Proxies	JTA Configuration
	Data Sources	Monitors	Virtual Hosts
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		Attribute Changes	Mail
	JMS	Trap Destinations	FileT3
	Connection Factories		
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	Destination Keys	WebLogic Tuxedo Connector	Bridges
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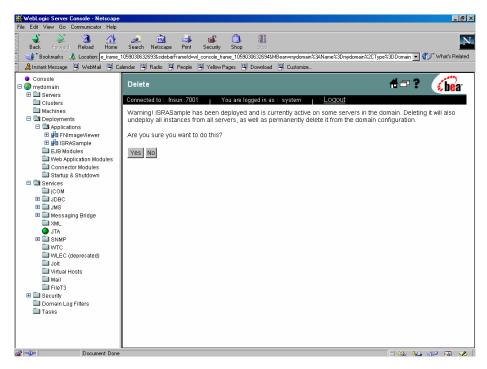
3. Navigate to **Deployments** > **Applications**. The following screen appears:

47 3.7			
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🚴 Instant Message 🖳 WebMail 🖳 Ca	alendar 🖳 Radio 🖳 People 🖳 Yellow I	Pages 🖳 Download 🖳 Customize	
Console	Welcome to BEA WebLogic	s Server Home	#=? 🎧
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	Connection Factories		
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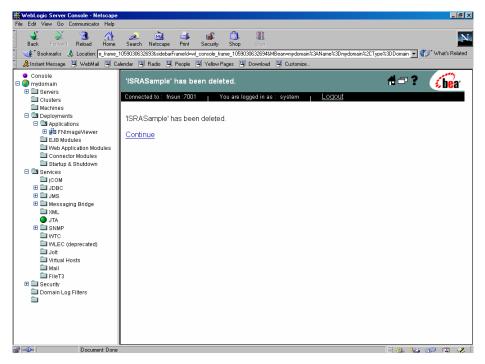
4. Right-click ISRASample in the left pane. Click Delete ISRA Sample.

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5. Click **Delete ISRASample** to delete the Sample Application. The **Delete** screen appears.



6. Click Yes to confirm deletion. The screen appears, as shown below:



8 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 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/Linux 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 text editor. If the hosts file does not exist, create a new file.
- 3. For each 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 a FileNet domain and organization identifying the target 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 a FileNet library has a domain, fn_is, and organization, FileNet, and its IP address is 123.45.6.78, the hosts file entry will be 23.45.6.78 fnis-filenet-nch-server

Note The underscore character is removed from the fn_is domain name and the F and Net in the FileNet organization name are converted to lower case.

Appendix A

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Appendix B

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>FileNet</vendor-name>
  <spec-version>1.0</spec-version>
  <eis-type>FileNet Image Services</eis-type>
  <version>3.2.1</version>
  cense>
    <license-required>false</license-required>
  </license>
  <resourceadapter>
    <managedconnectionfactory-
class>com.filenet.is.ra.spi.FN_IS_SpiManagedConnectionFactory</managedco</pre>
nnectionfactory-class>
    <connectionfactory-
interface>javax.resource.cci.ConnectionFactory</connectionfactory-
interface>
    <connectionfactory-impl-
class>com.filenet.is.ra.cci.FN_IS_CciConnectionFactory</connectionfactor
y-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>FileNet</config-property-value>
    </config-property>
    <config-property>
      <description>0-Exceptions and Warnings; 1-Info; 2-
Debug Level</description>
      <config-property-name>LoggingLevel</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
```

```
<config-property-value>0</config-property-value>
    </config-property>
    <config-property>
      <description>0-No Logging; 1-Console Logging; 2-File Logging; 3-
Both(File and console) </description>
      <config-property-name>LoggingMode</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>3</config-property-value>
    </config-property>
    <config-property>
      <description>Page data fetch size (in kilo bytes)</description>
      <config-property-name>PageBufferSize</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>64</config-property-value>
    </config-property>
    <config-property>
      <description>Cache refresh interval(in minutes)</description>
      <config-property-name>CacheRefreshInterval</config-property-name>
      <config-property-type>java.lang.Integer</config-property-type>
      <config-property-value>30</config-property-value>
    </config-property>
    <config-property>
      <description>Name of the Product</description>
      <config-property-name>ProductName</config-property-name>
      <config-property-type>java.lang.String</config-property-type>
      <config-property-value>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 3.2.1 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>Name of the User that is used to create Cache for
ISRA</description>
        <config-property-name>CacheUser</config-property-name>
        <config-property-type>java.lang.String</config-property-type>
        <config-property-value>SysAdmin</config-property-value>
    </config-property>
    <config-property>
       <description>Password of the User that is used to create Cache
for ISRA</description>
        <config-property-name>CacheUserPassword</config-property-name>
        <config-property-type>java.lang.String</config-property-type>
        <config-property-value>SysAdmin</config-property-value>
    </config-property>
    <config-property>
       <description>ISRA instance that is currently being deployed on a
single machine; Min Value = 1, Max Value = 10</description>
        <config-property-name>DeploymentInstance</config-property-name>
        <config-property-type>java.lang.Integer</config-property-type>
        <config-property-value>1</config-property-value>
    </config-property>
    <authentication-mechanism>
      <authentication-mechanism-type>BasicPassword</authentication-
mechanism-type>
      <credential-
interface>javax.resource.security.PasswordCredential</credential-
interface>
    </authentication-mechanism>
    <reauthentication-support>false</reauthentication-support>
  </resourceadapter>
</connector>
```

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