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Image Services Resource Adapter

Installation and Deployment Guide

For IBM WebSphere Application Server Version 5

Release 3.2.1

April 2006

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About This Manual

This manual provides information about installing and configuring FileNet Image Services Resource Adapter (ISRA) 3.2.1 on IBM WebSphere Application Server 5.

Conventions Used in this 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 & Support area at www.filenet.com.

Related References

For all ImageViewer parameters, please refer to the FNImageViewer documentation after installing ISRA 3.2.1. The path for FNImageViewer documentation is:

<ISRA-home>\ISRA321\FNImageViewer\docs

For all P8 System Manager related information, please refer to P8 System Manager documentation after installing ISRA 3.2.1. The path for P8 System Manager documentation is:

<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 an IBM WebSphere Application Server version 5 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 v1.0. 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 necessary files and information for deployment on a supported Application Server.

ISRA is available in two different editions:

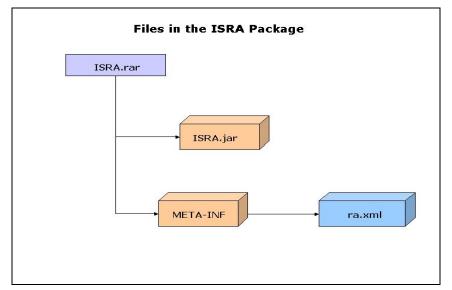
- View edition: Supports ISRA Read-only interactions.
- Enterprise edition: Supports additional interactions that include document creation, updating of document properties, inserting and retrieving of queue entries and saving annotations.

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. To install ISRA:

- **Note** The screenshots shown across this guide (taken on Windows Server, which includes both 2000 and 2003 Servers) may look slightly different on the system, depending on the platform version or 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 HPUX:

- Using a preferred editor (for example, vi), edit the /etc/pfs_fstab file by adding an entry similar to /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 IBM AIX 5.1 and 5.2:

Perform this step only if CD-ROM device is not already mounted. Note that one 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 command # mkdir /cdrom

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 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 and Solaris or setup.exe on Windows Server.
 - On HPUX, IBM AIX, Linux, or Solaris server or Linux navigate to the respective folder on the CD-ROM drive to locate setup.bin. To do this, type:

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

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

The installation screen appears, as shown below:



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

Image Services Resource Adapter 3.2.1 🗙		
?	Do you want to exit?	
	Yes No	

Click No to go back to the previous screen.

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

Image Services Resources	ce Adapter 3.2.1 Patch1	<u> </u>
	ISRA 3.2.1 Patch1 User Software License Notice	
No.	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; or 2. Your EMPLOYER and an authorized FileNet partne have entered into a written license agreement. If you do not have a valid license agreement or 2. Your EMPLOYER and an authorized FileNet partne have entered into a written license agreement. If you do not have a valid license agreement ouse 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 O I have read and understand this software license notice	= e r s
InstallShield		
mətaməmətli -	< <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	- 🗆 🗙
InstallBihield	Please enter the serial number.	
	< <u>B</u> ack Next> Can	icel

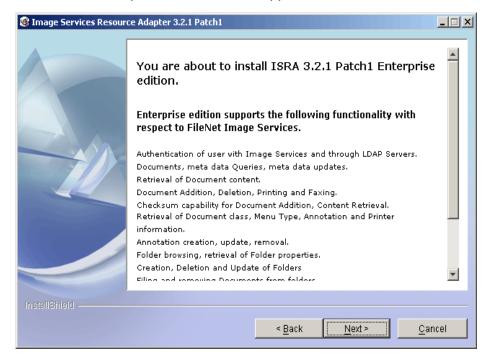
6. Enter the serial number and click **Next** to proceed.

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

• The View edition screen appears as below:



• The Enterprise edition screen appears as below:



7. Click **Next** to proceed with the installation.

Image Services Resources	ce Adapter 3.2.1 Patch1	_ 🗆 🗙
	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: Directory Name: C:tfnswIISRA321 Brows	
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. The default path shown is //fnsw/ISRA321. Before copying ISRA files to the destination, the following screen appears:

Image Services Resources	ce Adapter 3.2.1 Patch1	<u> </u>
	Please Review the Following Before Continuing: Image Services Resource Adapter will be installed in the following location: CtfnswIISRA321	
	for a total size: 57 MB	
InstallShield	< <u>B</u> ack <u>Next></u>	cel

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 Adapter 3.2.1 Patch1		
	Installing Image Services Resource Adapter. Please wait	
	C:tfnswlISRA321\Sample\FNImageViewer.ear 34%	_
InstallShield		
	< <u>Back</u> Next≻ <u>C</u> a	ncel

10. The following screen appears, when ISRA installation completes:

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

11. Click Finish.

Login as root user and execute the following command to unmount the CD-ROM # <code>umount /cdrom</code>

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 <Real Path>/<name of template file>,
e.g. fnsw\ISRASilent\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 any J2EE 1.3 compliant Application Server. This manual describes the deployment of ISRA on IBM WebSphere Application Server version 5.

Note The installation procedure for IBM WebSphere Application Server v5 and configuring clustered environment on IBM WebSphere Application Server v5 is outside the scope of this document, and it is assumed that the required settings and configurations are satisfied.

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 an IBM WebSphere Application Server v5.

Hardware Requirements

- Please refer to the IBM WebSphere system requirements section at <u>http://www.ibm.com/software/Webservers/appserv/doc/latest/prereq.ht</u> <u>ml</u>
- The IBM WebSphere documentation is available at http://www.software.ibm.com/Webservers/appserv/library.html
- ISRA installation will require at least 80MB free disk space.

Software Requirements

- IBM WebSphere Application Server 5 installed on Sun Solaris 9, HPUX, IBM AIX 5.1 and 5.2, Linux or Windows 2000 and 2003 Server.
- IBM Websphere Network Deployment Manager.

• Fix PQ73966 or Fix Pack 2, for IBM WebSphere 5, which fixes WebSphere limitation to store open JCA connection in HTTPSession object.

Please refer to <u>http://www.ibm.com/Search?y=11&lang=en&cc=us&q=PQ73966&Sea</u> <u>rch.x=28&Search.y=11</u> for details on how to apply the fix.

• FileNet IS 3.6 SP2 and above.

Deploying ISRA in a Standalone Environment

ISRA is deployed using the WebSphere Administrative Console. The steps to deploy are:

1. Start the WebSphere 'First Steps'. On an AIX system, login as the root user and execute the WebSphere firststeps.sh script, as follows:

cd <WebSphere installation
directory>/AppServer/firststeps

./firststeps.sh

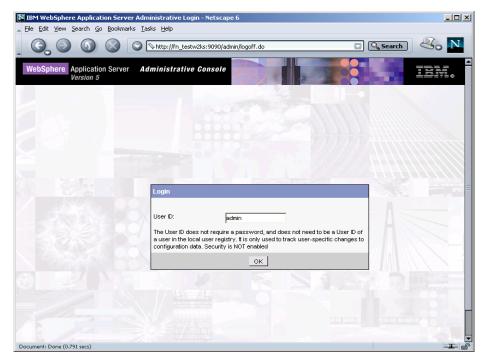
🕀 WebSphere Application Server - FirstSteps	_ 🗆 🗵
WebSphera Application Server	
First Steps Version 5.1	
WebSphere Information Center Learn more about WebSphere Application Server.	
Start the Server Start the server and its applications.	
Verify Installation Confirm your server installed and started properly.	
Register the Product Register the product electronically (requires Internet connection). View the readme_prt.txt file in the prt subdirectory for the URL.	
Samples Gallery See WebSphere Application Server in action.	
Administrative Console Install and administer applications.	
Exit	

- 2. Click Start the Server.
- 3. Launch a web browser and enter the URL <u>http://server:port/admin</u>.

Here, 'server' is name of the host where WebSphere server is running and 'port' is the port number on which the admin server is listening. By default, this port number is 9090.

Login to the WebSphere Administrative console, which is a web based interface.

The WebSphere Administrative console screen appears:



4. Enter User ID and click OK. The following screen appears:



5. Navigate to **Resources >Resource Adapters**. The following screen appears:

🔊 WebSphere Administrative Console - Nets	
File Edit View Go Bookmarks Tools Win	dow Heb
	p://fnaix:9094/admin/secure/logon.do
🔺 🖾 🖌 🏰 Home 🔤 Netscape 🔍 Search	n 🛇 Customize 🛇 WebSphere A
Netscape - Enter Search Terms	💽 🔍 Search 🏈 Highlight 🕺 Pop-Ups Blocked: 1 🧳 Form Fill 👻 🖉 Clear Browser History 👼 News 🖾 Email 😂 Weather »
😢 New Tab 🛇 WebSphere Administrative Cons	ole
Version 5	ninistrative Console
Home Save Preferences Logou	t Help
User III: admin fnaiktetwork Sectors Servers Applications Resources USES Providers UsebSphere JMS Provider WebSphere JMS Provider WebSphere Mo LIMS Provider Mol Providers Resource Environment Providers USE Providers Resource Environment Providers USE Providers Resource Adventers Enseurce Adventers	Total 1 Scope: Cell-finalxHetwork, Node-finalx Cell finalxletwork Node finalx Browse Nodes Apply. Server Browse Nodes Or block apply Or block apply. Apply Or block apply. Apply Or block apply. Apply Or block apply. Filter Preferences Install RAR New
System Administration Troubleshooting	Vet/Schere Relational Resource Adapter
	WebSphere Status [] ≤ Previous Hext > November 28, 2005 2 57:34 PM PKT Q WebSphere Configuration Problems Total Configuration Problems :0
	Preferences
🕲 🖂 🔏 🐏 🛄 http://fnaix:9094/admin/navio	atorCmd.do?forwardName=J2CResourceAdapter.content.main

6. Click Install RAR. The following screen appears:

S WebSphere Administrative Console - Net	•		
File Edit View Go Boolmarks Iools Window Help			
🔤 🚱 💿 💿 💿 🔯 🔤 🗟			
🔔 / 🖽 🖌 🏠 Home 🔤 Netscape 🔍 Searc	n 🛇 Customize 🛇 WebSphere A		
Netscape - Enter Search Terms	Search SHighlight SPop-Ups Blocked:	🔢 🥒 Form Fill 🔹 🥔 Clear Browser History 🗒 News 🖾 Email 🔅 Weather »	
New Tab 🛇 WebSphere Administrative Cons	ole		
Version 5	ninistrative Console	EX.	
User ID: admin	Install RAR File		
fnaixNetwork			
Servers	AR files can be installed using two methods. You can choose t a server.	to upload a RAR file from local file system or you can specify an existing RAR file on	
Applications			
E Resources	Path Browse the local machine or a remote server:	Choose the local path if the RAR resides on the same machine as the browser. Choose the server path if the RAR resides on any of the nodes in your cell	
JDBC Providers	Local path:	chouse the server path in the KAR resides on any or the hodes in your cent context.	
Generic JMS Providers	Browse		
WebSphere JMS Provider	C Server path:		
WebSphere MQ JMS Provider	Browse		
Mail Providers Resource Environment Providers	Seema vi vi la	The RAR file will be installed and extracted on the selected node. Installation	
URL Providers	Scope Node: fnaix 💌	will create a resource adapter in the configuration at this scope.	
Resource Adapters			
E Security	Next Cancel		
Environment			
System Administration			
Troubleshooting			
		, 🔺	
	WebSphere Status i < <u>Previous</u>	November 28, 2005 3:01:36 PM PKT ₫	
	WebSphere Configuration Problems		
	Total Configuration Problems :0	: O total 🛄 : O total	
	Preferences	▼	
🕲 🖂 🙏 🖓 🛄 Done		-II- 🕶 🖆 🥢	

7. Click **Browse** to navigate to the directory where ISRA 3.2.1 is installed. Select the **ISRA.rar** file from the jar folder of ISRA installation directory. Click **Next**. The General Properties screen appears.

🕅 WebSphere Administrative Console - Nel	tecano	
File Edit Yiew Go Bookmarks Iools Wi		
	ttp://fnaix:9094/admin/secure/logon.do	
🔍 / 🖽 🖌 Mome My Netscape 🔍 Sean	rch 🛇 Customize 🛇 WebSphere A	
Netscape - Enter Search Terms	Search 🖉 Highlight	Pop-Ups Blocked: 1 🖉 Form Fill 👻 🥜 Clear Browser History 👼 News 🖾 Email 🟠 Weather »
New Tab Sphere Administrative Con	nsole	
Version 5	Iministrative Console	
User ID: admin	General Properties	
fnaixNetwork	Scope	aix I The scope of the configured resource provider. This value indicates the
E Servers		configuration location for the configuration file.
Applications	Name	The name of the resource adapter. If this property is not specified, the value of the display-name in the deployment descriptor will be used.
Resources	Description	A text description for the resource provider.
JDBC Providers	Description	
Generic JMS Providers WebSphere JMS Provider		
WebSphere MQ JMS Provider		
Mail Providers		
Resource Environment Providers	Archive Path	Description: If the installed RAR file containing the module for this resource adapter. If this property is not specified, the archive will be extracted to the absolute path
URL Providers		represented by the symbolic name "CONNECTOR_INSTALL_ROOT". "CONNECTOR_INSTALL_ROOT" is a variable defined in variables.xml file.
Resource Adapters	Classpath	A list of paths or JAR file names which together form the location for the resource
Environment	clusspon	provider classes. Classpath entries are separated by using the ENTER key and must
System Administration		not contain path separator characters (such as " or "). Classpaths may contain variable (symbolic) names which can be substituted using a variable map. Check your
Troubleshooting		drivers installation notes for specific JAR file names which are required.
	WebSphere Status i	<u>< Previous</u> November 28, 2005 3:01:36 PM PKT Q
	WebSphere Configuration Problems	
	Total Configuration Problems :0	(<u>0 total</u> : <u>0 total</u> =
	Preferences	
🕲 🖂 🔏 🖭 🔲 Done	1	-II- 🔁 🔐

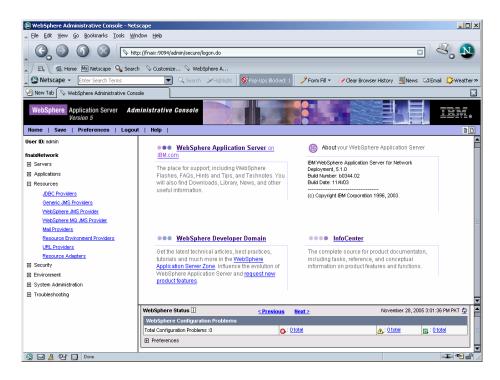
8. Click **OK**. The ISRA.rar file gets uploaded. A confirmation message is displayed, as shown in the screen below:



9. Click Save in the Message(s) box (in the right pane).

🙉 WebSphere Administrative Console - Ne	tscape
Eile Edit Yiew Go Bookmarks Iools Y	
	ktp://fnaix:9094/admin/secure/logon.do
🚬 / 🖽 🖌 🏦 Home 🔤 Netscape 🔍 Sea	rch 🛇 Customize 🛇 WebSphere A
Netscape - Enter Search Terms	🔍 🔍 Search 🌛 Highlight 🛛 🕺 Pop-Ups Blocked: 1 📝 Form Fill 👻 🧭 Clear Browser History 👼 News 🖙 Email 🍄 Weather »
🕙 New Tab 🛇 WebSphere Administrative Co	nsole
WebSphere Application Server Active Version 5	Iministrative Console
User ID: admin	Message(s)
fnaixNetwork E Servers	The server may need to be restarted for these changes to take effect.
Servers Applications	
Resources	Resource Adapters >
JDBC Providers	Save
Generic JMS Providers	Save your workspace changes to the master configuration
WebSphere JMS Provider	Save your workspace changes to the haster configuration
WebSphere MQ JMS Provider	Save to Master Configuration
Mail Providers	
Resource Environment Providers	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work again using the master repository configuration. Click the Cancel button to continue working with your changes.
URL Providers	Total changed documents: 1
Resource Adapters	
 Environment 	Synchronize changes with Nodes
System Administration	Save Discard Cancel
Troubleshooting	
	WebSphere Status ii < Previous Next > November 28, 2005 3:01:36 PM PKT 🗘
	WebSphere Configuration Problems
	Total Configuration Problems : 0
	Preferences
S 🖬 🙏 🖭 🔲	

10. Click **Save** to save the changes to the master configuration. The following screen appears.



- **11.** Restart the WebSphere Node (or Application Server) after deployment. This step is required to ensure that the ISRA classes are in the Application Server's CLASSPATH.
- **12.** To verify the ISRA deployment, deploy the Sample Application provided with ISRA and logon through the Sample Application.
- **Note** User can configure multiple Connection Factories with unique JNDI names to connect to multiple IS servers from ISRA. Configuration of multiple Connection Factories is explained in the Configuring Deployed ISRA section.

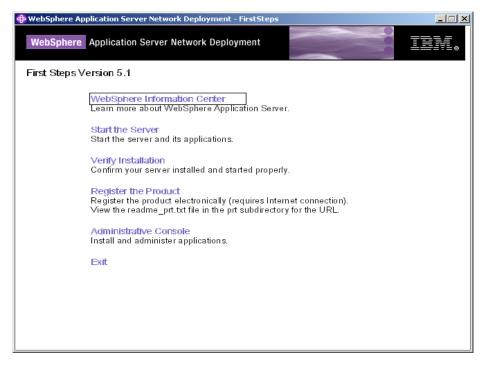
Deploying ISRA in a Clustered Environment

In a clustered environment, ISRA is deployed using the WebSphere Network Deployment Manager Administrative console.

Note After installing Network Deployment Manager you need to create a Deployment Manager profile using Profile Creation Wizard. For example "dmgr" profile mentioned below in the first step of ISRA deployment.

The steps to deploy ISRA are:

- 1. Start the WebSphere 'First Steps'. On an AIX system, login as the root user and execute the WebSphere firststeps.sh script, as follows:
 - # cd <DeploymentManager home>/firststeps/



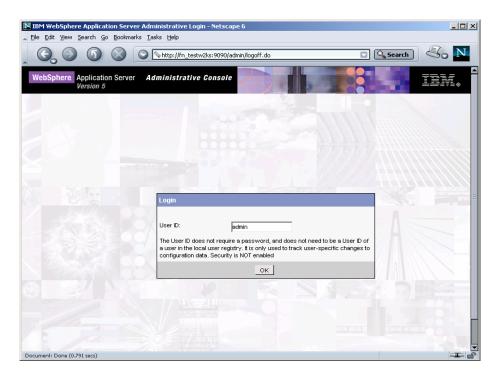
2. Click Start the Server.

3. Launch a web browser and enter the URL http://server:port/admin

Here, 'server' is name of the host where WebSphere Network Deployment Manager is running and 'port' is the port number on which the admin server is listening. By default, this port number is 9091.

Login to the WebSphere Network Deployment Manager Administrative console, which is a web based interface.

The WebSphere Administrative console screen appears.



4. Enter User ID and click OK. The following screen appears:

WebSphere Administrative Console - Net					_ □ ×
Ele Edit Yiew Go Bookmarks Tools Will	aow Help p://fnaix:9094/admin/secure/logon.do				2. 🔊
🔺 🖽 Home My Netscape 🔍 Searc	h 🛇 Customize				
Netscape - Enter Search Terms	🗨 🔍 Search 🖋 Highlight	🚫 Pop-Ups Blocked: 1	🥖 Form Fill 👻 🥑 Cle	ar Browser History 👼 News 🖸	🛛 Email 🛛 🏠 Weather »
😢 New Tab 🚫 WebSphere Administrative Con:	ole				×
WebSphere Application Server Adu Version 5	ninistrative Console				
User ID: admin					
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5. Navigate to **Resources >Resource Adapters**. The following screen appears:

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finalizitetwork file Servers Applications Resources JDBC Providers Generic JMS Providers WebSphere IMS_Provider WebSphere IMS_Provider Besource Environment Providers UBL_Providers UBL_Providers	Total: 1 Scope: Cell=fnaixNetwork, Node=fnaix Cell fnaix/tetwork → Node fnaix Browse Nodes To specify cell scope, clear the node and server fields and click Apply. To select anode scope, type in or browse for a node, then clear the server field and click Apply. Server Browse Servers Do select a server scope, select a node scope first, then type in or browse for a server, and click Apply. Apply When new tens are created in this view, they will be created within the current scope. E Filter IP Peterscopes				
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6. Click **Browse Nodes** to deploy ISRA.rar on all the servers in a node. The following screen appears:

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7. Select a Node and click OK. The following screen appears:

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Applications	Cell fnaixNetwork To specify cell scope, clear the node and server fields and click					
Resources	→ Node fnaix Browse Nodes To select a node scope, type in or browse for a node, then clear					
JDBC Providers	the server field and click Apply.					
Generic JMS Providers WebSphere JMS Provider	Server Browse Servers To select a server scope, select a node scope first, then type in or browse for a server, and click Apply.					
WebSphere MQ JMS Provider	When new items are created in this view, they will be created					
Mail Providers	within the current scope.					
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8. Click **Apply** and then click **Install RAR**. The following screen appears:

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fnaixNetwork	Install RAR File RAR files can be installed using two me a server.	thods. You can choose to	upload a RAR file from	m local file system or you can specify an existing RAR file on		
Resources JOBC Providers Generic JMS Providers WebSphere JMS Provider WebSphere JMS Provider Mell Providers	Path Browse the local machine of Local path:	ar a remote server: Browse Browse		h if the RAR resides on the same machine as the browser. ath if the RAR resides on any of the nodes in your cell		
Resource Environment Providers URL Providers	Scope Node: fnaix 💌			installed and extracted on the selected node. Installation adapter in the configuration at this scope.		
Resource Adapters	Next Cancel					
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9. Click **Browse** to navigate to the directory where ISRA 3.2.1 is installed. Select the **ISRA.rar** file from the jar folder of ISRA installation directory. Click **Next**. The General Properties screen appears.

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Applications	Name			of the resource adapter. If t in the deployment description		fied, the value of the
Resources	Description			scription for the resource pri		
JDBC Providers						
Generic JMS Providers						
WebSphere JMS Provider WebSphere MQ JMS Provider						
Mail Providers						
Resource Environment Providers	Archive Path			e installed RAR file containin		
URL Providers				ot specified, the archive will by the symbolic name "CON		
Resource Adapters			"CONNECTOR	R_INSTALL_ROOT" is a vari	able defined in variables	.xml file.
	Classpath			aths or JAR file names whic sses. Classpath entries are :		
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10. Click **OK**. The ISRA.rar file gets uploaded. A confirmation message is displayed, as shown in the screen below:



11. Click the **Save** link in the Message(s) box (in the right pane).

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Servers	The server may need to be restarted for	these changes to take effect.		
Applications				
Resources	Resource Adapters >			
JDBC Providers	Save			
Generic JMS Providers	Save your workspace changes to the maste	er configuration		
VebSphere JMS Provider				
WebSphere MQ JMS Provider	Save to Master Configuration			
Mail Providers Resource Environment Providers			card button to discard your changes and begin work	
URL Providers		aration. Click the Cancel button to continue wo	orking with your changes.	
Resource Adapters	Total changed documents: 1			
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12. Enable the **Synchronize Changes with Nodes** check box, and click **Save** to save the changes to the master configuration. The following screen appears.



13. To verify the ISRA deployment, deploy the Sample Application provided with ISRA and perform a logon through the Sample Application.

- **14.** Restart the WebSphere cluster using the Network Deployment Manager after deployment. This step is required to ensure that the ISRA is deployed properly in the cluster.
- **Note** User can configure multiple Connection Factories with unique JNDI names to connect to multiple IS servers from ISRA. Configuration of multiple Connection Factories is explained in the Configuring Deployed ISRA section.

Mandatory Requirements for ISRA 3.2.1

The mandatory requirements for ISRA 3.2.1:

Steps to include **listener.jar** and **log4j-1.2.8.jar** in the classpath of Application Server are:

- 1. Login to the WebSphere Administrative console.
- 2. Navigate to Servers > Application Servers, and select the server.
- 3. Under Additional Properties, click Process Definition.
- 4. Under Additional Properties, click Java Virtual Machine.
- 5. Include listener.jar and log4j-1.2.8.jar in the Classpath, as shown below:

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Application Servers	General Properties		
JMS Servers Clusters	Classpath	C: ljars Vistener jar; C: ljars Vog4j-1.2.8. jar	Specifies the standard class path in which the Java virtual machine looks for classes.
Cluster Topology			
Applications			
Resources	Boot Classpath		Specifies bootstrap classes and
			resources for a JVM. This option is only available for JVMs that support bootstrap
Environment			classes and resources. You might separate
System Administration Troubleshooting			multiple paths by a colon (:) or semi-colon (;), depending on operating system of the node.
E Housesioning	Verbose class loading		Specifies whether to use verbose debug output for class loading. The default is not to enable verbose class loading.
	Verbose garbage collection		Specifies whether to use verbose debug output for garbage collection. The default is not to enable verbose garbage collection.
	Verbose JNI		Specifies whether to use verbose debug output for native method invocation. The
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3 ISRA Configuration

This chapter describes how to configure ISRA on a WebSphere Application Server version 5, after it is deployed.

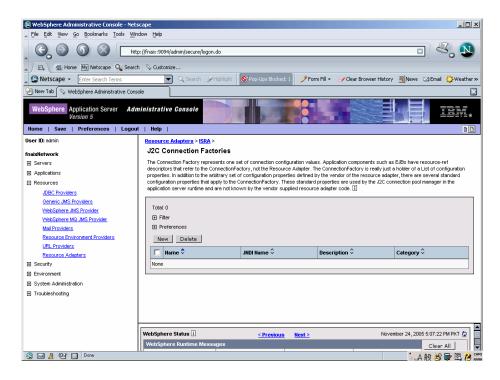
Configuring Deployed ISRA

This section describes the procedure to edit ISRA deployment properties using the WebSphere Administrative Console.

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

To edit the ISRA deployment descriptor:

- 1. Launch a Web browser window and login to the WebSphere Administrative Console or Network deployment Administrative Console depending on whether ISRA is deployed in standalone or clustered environment.
- 2. Expand the Resources node.
- **3.** Click on the deployed ISRA to edit under the **Resource Adapters** node.
- 4. Click J2C Connection Factories. The following screen appears:



5. Click New. The following screen appears:

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WebSphere Application Server A Version 5 Home Save Preferences Log User ID: schnin Log Log Log Log	Idministrative Console				
fnaixNetwork	General Properties				
Bervers Applications	Scope	cells:fnaixNetwork:nodes:fnaix	The scope of the configured resource. This value indicates the configuration location for the configuration file.		
E Resources	Name	* ISCF	I The required display name for the resource.		
JDBC Providers Generic JMS Providers WebSphere JMS Provider WebSphere MQ JMS Provider Mail Providers Resource Environment Providers	JNDI name	lisof	The JNDI name for the resource, including any naming subcortexts. The name is used to in the bylation binding information. The binding associates the resources defined the deployment descriptor of the module to the actual (physica) resources bound into JNDI by the platform.		
URL Providers Resource Adapters Security Environment	Description		[] An optional description for the resource.		
 System Administration Troubleshooting 	Category		 An optional category string which can be used to classify or group the resource. 		
	Authentication Preference	BASIC_PASSWORD	Specifies which of the authentication mechanisms which are defined for the corresponding resource adapter applies to this connection factory. For example, if two auth mechanism entries have been defined for a		
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fn_testw2ks ⊡ Servers						
Applications Resources JDBC Providers	Category		An optional category string which can be used to classify or group the resource.			
Ceneric MS Providers WebSchere JMS Provider WebSchere MG JMS Provider Mai Providers Resource Environment Providers URL Providers Resource Adapters El Security El Environment	Authentication Preference	BASIC_PASSWORD	II) Specifies which or the authentication mechanisms which are defined for the corresponding resource adapter applies to this connection factory. For example, if two auth mechanism entries have been defined for a resource adapter, KertvV5 and Basic Password, this will specify one of those two types. If the auth mechanism preference specified is not an available auth mechanism on the corresponding resource adapter, it is ignored. Detaul=BASIC PASSWORD			
 System Administration Troubleshooting 	Component-managed Authentication Alias	×	References authentication data for component-managed signon to the resource.			
	Container-managed Authentication Alias	•	References authentication data for container-managed signon to the resource.			
	Apply OK Reset Cancel					
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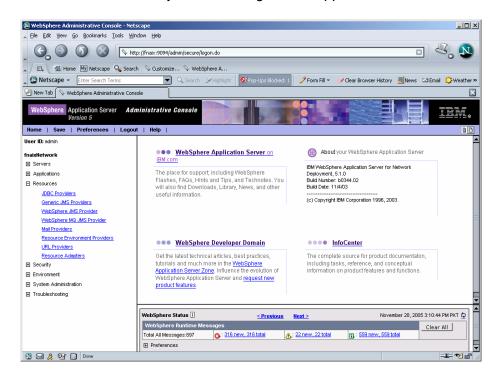
6. Provide a name for the Connection Factory. Provide the JNDI name, for example ISCF. Click Apply. A confirmation message is displayed, as shown in the screen below:

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		cal configuration. Click Save to apply changes to th	e master configuration		
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FI Applications	,	······································			
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JDBC Providers	ISCF		-		
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WebSphere JMS Provider		e set of connection configuration values. Application Factory, not the Resource Adapter. The Connection	n components such as EJBs have resource-ren nFactory is really just a holder of a List of configuration		
WebSphere MQ JMS Provider			of the resource adapter, there are several standard		
Mail Providers		e ConnectionFactory. These standard properties an known by the vendor supplied resource adapter co			
Resource Environment Providers					
URL Providers	Configuration				
Resource Adapters					
	General Properties				
Environment	Scope	cells:fnaixNetwork:nodes:fnaix	I The scope of the configured resource.		
 System Administration 			This value indicates the configuration location for the configuration file,		
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7. Click the **Save** link in the **Messages** box. The following screen appears:

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fnaixNetwork	A Changes have been made to your local configuration. Click Save to apply changes to the master configuration.						
Servers	The server may need to be restarted for these changes to take effect.						
Applications							
E Resources	Resource Adapters > ISRA > J2C Connection Factories > ISCE >						
JDBC Providers	Save						
Generic JMS Providers	Save your workspace changes to the master configuration						
WebSphere JMS Provider							
WebSphere MQ JMS Provider	Save to Master Configuration						
Mail Providers	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work						
Resource Environment Providers	again using the master repository configuration. Click the Cancel button to continue working with your changes.						
URL Providers	Total changed documents: 1						
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8. Enable Synchronize changes with Nodes, and click Save to save the changes in the master configuration. On successful creation of Connection Factory, the following screen appears.

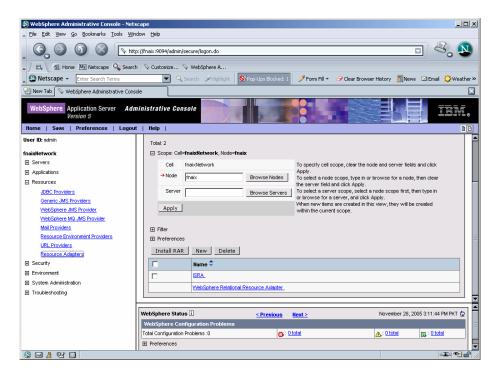


Changing Parameters Specific to ISRA

After ISRA is deployed, some parameters of the Deployment Descriptor need to be changed to configure it for the target IS server.

To change these parameters:

1. Navigate to **Resources > Resource Adapters**. The following screen appears:



2. Under Name column, click ISRA. The following screen appears:

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E Resources	Scope	 cells:fnaixNetwork:noi 	les:fnaix		e configured resource provider. This value indicates the ion for the configuration file.				
JDBC Providers	Name	ISRA.		i The name of the	resource provider.				
Generic JMS Providers WebSphere JMS Provider	Description			A text description	on for the resource provider.				
VebSphere MQ JMS Provider									
Mail Providers									
Resource Environment Providers									
URL Providers									
Resource Adapters	Archive Patr	* \${CONNECTOR_INST	ALL_ROOT)/ISRA.rar	adapter.	lled RAR file containing the module for this resource				
Security Environment	Classpath	\${CONNECTOR_INSTAL	L_ROOT)/ISRA.rar		r JAR file names which together form the location for the				
Environment System Administration					classes. Classpath entries are separated by using the ist not contain path separator characters (such as "' or				
Troubleshooting					y contain variable (symbolic) names which can be				
E. Constanting					a variable map. Check your drivers installation notes for ames which are required.				
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3. Under Additional Properties, click J2C Connection Factories. The following screen appears:

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Servers	The Connection Factory represents one set of connection configuration values. Application components such as EJBs have resource-ref descriptors that refer to the ConnectionFactory, not the Resource Adapter. The ConnectionFactory is really just a holder of a List of configuration							
Applications	properties. In addition to the arbitrary set of configuration properties defined by the vendor of the resource adapter, there are several standard							
Resources	configuration properties that apply to the ConnectionFactory. These standard properties are used by the J2C connection pool manager in the application server runtime and are not known by the vendor supplied resource adapter code.							
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4. Click on the already created ISRA Connection Factory, or **ISCF** link. The following screen appears:

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5. Click **Custom Properties**. The different parameters, which may be customized, are displayed.

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WebSphere JMS Provider WebSphere MQ JMS Provider	CacheRefreshinterval	30_	Cache refresh interval(in minutes)	false.
Mail Providers Resource Environment Providers	ProductName_	FileNet Image Services Resource Adapter	Name of the Product	false_
URL Providers	ProductVersion_	ISRA 3.2 Enterprise	Product Version	false
Resource Adapters	LogFileName_	ISRA.log	ISRA Logfile name (can include path)	false.
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6. To customize each parameter, click on the parameter name, modify and then save the changes. Refer to the <u>Configurable ra.xml entities</u> section, for the details.

Configurable ra.xml Entities

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

- DomainName
- OrganizationName
- LogFileName
- LoggingLevel
- LoggingMode
- LogFileSize
- PageBufferSize
- CacheRefreshInterval
- <u>CacheUser/CacheUserPassword</u>
- DeploymentInstance
- PCHLogging
- <u>AllowAnonymousUser</u>
- RPCLogging

Note It is mandatory to configure DomainName and OrganizationName properties, as the ISRA needs these properties to access 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).

DomainName

This is the name of the domain of the IS server. Click **DomainName** in the right pane. The default value for DomainName is FileNetIS. It should be set according to the operational environment.

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Resource Environment Providers URL Providers	Value	FileNetIS	 Value associated with this property in this property set. 			
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OrganizationName

This is the FileNet IS organization name. The default value for OrganizationName is FileNet. Click **OrganizationName** to change the value to the target IS server.

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LogFileName

The LogFileName is a string containing the name and path of the log file. Click **LogFileName** to change the value. 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.

Note If there are multiple connection factories then ISRA will maintain all logs in a single ISRA logfile, even if a separate logfile name is specified for each connection factory. WebSphere will use the name of the configured logfile for the first connection factory that is used to login after WebSphere starts up. If separate logging is desired, ISRA cannot be deployed as a resource. For every logfile (connection factories), a separate web application (ear file) with the ISRA connector bundled must be deployed. Refer to the <u>Configuring Multiple ISRA Instances with Separate Logging</u> section.

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LoggingLevel

This is an integer representing the level 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

Click **LoggingLevel.** 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 user encounters a problem while accessing ISRA through the application.

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LoggingMode

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

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

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

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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.

Click LogFileSize. The default value of LogFileSize is 5MB.

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URL Providers	Description	Page data fetch size (in kilo bytes)	i Text to describe any bounds or well-defined values for this property.				
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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.

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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. Click **Apply** after modifying the property.

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Note To configure ISRA for multiple IS servers; create a Connection Factory for each IS that you want to connect. DomainName and OrganizationName pair has to be distinct among the configured Connection Factories.

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 via ISRA will fail.

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JDBC Providers Generic JMS Providers	Scope	★ cells: fnaixNetvvork: nodes: fnaix	The scope of the configured resource. This value indicates the configuration location for the configuration file.		
WebSphere JMS Provider	Required	false	1		
WebSphere MQ JMS Provider Mail Providers	Name	CacheUser	I Name associated with this property (for example, PortNumber and ConnectionURL).		
Resource Environment Providers URL Providers	Value	SysAdmin	Value associated with this property in this property set.		
Resource Adapters 厨 Security	Description	Name of the User that is used to create Cache for ISR.	A i Text to describe any bounds or well-defined values for this property.		
Environment	Туре	java.lang.String	 Fully qualified Java type of this property (java.lang.Integer, java.lang.Byte). 		
System Administration	Apply	OK Reset Cancel			
Troubleshooting Troubleshooting					
	WebSphere Stat	us i < <u>Previous</u> Next >	November 28, 2005 3:14:45 PM PKT 💩		
	WebSphere Ru	ntime Messages	Clear All		
	Total All Message		w, 22 total n.: 559 new, 559 total		
	Preferences				
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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.

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User ID: admin						
fpaixNetwork	Configurati	on				
E Servers						
Applications	General P	roperties				
E Resources	Scope	* cells: fnaixNetwork:nodes: fnaix	The scope of the configured resource. This value indicates the configuration location			
JDBC Providers			for the configuration file.			
Generic JMS Providers	Required	false				
WebSphere JMS Provider WebSphere MQ JMS Provider	Name		Name associated with this property (for example, PortNumber and ConnectionURL).			
Mail Providers Resource Environment Providers	Value	1	I Value associated with this property in this property set.			
URL Providers	Description	ISRA instance that is currently being deployed on a single machine; Min Value = 1, Max Value = 10	Text to describe any bounds or well-defined values for this property.			
Resource Adapters	Туре	java.lang.Integer	I Fully qualified Java type of this property (java.lang.Integer, java.lang.Byte).			
Environment	Apply	OK Reset Cancel				
System Administration						
Troubleshooting						
-			M			
	WebSphere S	tatus i <u>< Previous</u> <u>Next ></u>	November 28, 2005 3:14:45 PM PKT 🧕			
	WebSphere	Runtime Messages	Clear All			
	Total All Messa	ges:897 👩 : <u>316 new, 316 total</u> 🔥 : <u>22 new, 22 total</u> 🔃 :	559 new, 559 total			
	Preference:	3				
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Configuring Multiple ISRA Instances with Separate Logging

This section explains how to deploy 2 instances of ISRA (with 2 instances of the Sample application) with separate ISRA log files for each instance.

1. Create two duplicates of ISRA.rar file and ISRASample.ear file each (one for each deployment).

Note Any naming convention may be used to name the duplicate files. For instance, the two duplicate files of ISRA.rar may be named as ISRA1.rar, and ISRA2.rar.

- 2. To bundle ISRA with the Sample Application:
 - i. Modify META-INF/application.xml in each ear file

(The contents of this file are provided below. The red text denotes text to be added or modified.)

```
<?xml version="1.0" encoding="UTF-8"?>
   <!DOCTYPE application PUBLIC "-//Sun
   Microsystems, Inc.//DTD J2EE Application
    1.3//EN"
   "http://java.sun.com/dtd/application_1_3.dtd">
        <application>
        </application>
        </applic
```

```
<description>FileNet ISRA 3.2.1, Sample
Application</description>
```

<module>

```
<web>
```

<web-uri>ISRASampleWEB1.war</web-uri>

<context-root>ISRA1</context-root>

</web>

</module>

<module>

<connector>ISRA1.rar</connector>

```
</module>
```

```
</application>
```

The value in the <context-root> tag in application.xml file specifies the name with which the application is accessed in the web browser. This must be different for each deployment. Here, for instance, ISRA1 and ISRA2 have been used. Therefore, the URL for each instance would be.

http://server:9080/ISRA1

http://server:9080/ISRA2

The value in the <connector> tag specifies the name of the ISRA.rar file. In this case, enter "ISRA1.rar" in the application.xml file within ISRASample1.ear and "ISRA2.rar" in the application.xml file within ISRASample2.ear.

- Put ISRA1.rar in the top most directory of the ISRASample1.ear directory structure (it will be the same place where you will find ISRASampleWEB.war). Do the same for ISRA2.rar with ISRASample2.ear.
- **3.** To install ISRASample1.ear and ISRASample2.ear, refer the section <u>Deploying the Sample Application in a Standalone Environment</u>.

Note: Name the first instance as ISRA_Sample1, and the second instance as ISRA_Sample2.

- **4.** Perform the following steps to create the connection factories for each ISRA instance within each sample application installation:
 - i. Navigate to Applications -> Enterprise Applications.
 - Click the sample application for which connection factory is to be configured (for example: ISRA_Sample1). The following screen appears:

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🕝 🗿 🕥 🖉 http://fr-nikhil:9090/admin/secure/logon.do						
🖌 / 🖽 🖌 🏤 Home 🔤 Netscape 🔍 Search	🛇 Customize					
Netscape - Enter Search Terms	🗸 🔍 Search 🎾 Highlight 🚺 Pop-Ups Blocked: 12 🧳 Form Fill 🗸 🧭 Clear Browser History 👼 News 🖸 Email 🟠 Weather					
New Tab Sphere Administrative Cons						
WebSphera Application Server Adm Version 5	ninistrative Console					
User ID: admin	Reioad craoled					
fn-nikhil ⊞ Servers	Reload Interval I] The timeperiod (in seconds) in which the application's flesystem will be scanned for updated files.					
Applications	Apply OK Reset Cancel					
Enterprise Applications						
Install New Application	Additional Properties					
Resources Becurity	Target Mappings The mapping of this deployed object (Application or Module) into a target environment (server, cluster, cluster member)					
Environment	Libraries A list of library references which specify the usage of global libraries.					
 System Administration 	Session Management Session Manager properties specific to this Application					
Troubleshooting	View Deployment Descriptor View the Deployment Descriptor					
	Map virtual hosts for web modules Map virtual hosts for web modules					
	Map modules to application servers Map modules to application servers					
	Related Items					
	Web Modules Web Modules defined for this Application EUB Modules EUB Modules defined for this Application					
	EJB Modules EJB Modules defined for this Application Connector Modules Connector Modules defined for this Application					
	Connector woodles Connector woodles denned for this Application					
	WebSphere Status ii Previous Next > February 7, 2006 10:23:45 AM GMT+05:30 C					
	WebSphere Runtime Messages Clear All					
	Total All Messages:311 O: 3 new, 3 total C: 0 new, 0 total C: 308 new, 308 total					
	Preferences					

iii. Under Related Items, click the **Connector Modules** link. The following screen appears:

WebSphere Administrative Console - Net	
<u>Eile Edit View Go Bookmarks Tools Wi</u> r	ndow Help
	p://fr-nikhl:9990/admin/secure/logon.do
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Netscape - Enter Search Terms	🔍 🔍 Search 🖉 Highlight 🚺 Pop-Ups Blocked: 12 🥜 Form Fill 🗸 🧭 Clear Browser History 🗮 News 🖂 Email 🏠 Weather 🗴
New Tab Sphere Administrative Co	nsole
WebSphere Application Server An Version 5	Iministrative Console
User ID: admin	Enterprise Applications > ISRA_Sample >
	Connector Modules
fn-nikhil E Servers	An instance of ConnectorModuleDeployment is created for every connector module (RAR) in the application.
Applications	
Enterprise Applications	Total: 1
Install New Application	E Filter
Resources	Preferences
	Uri 🗘 Name 🗘
Environment	Uri v Name v ISRA1 rar
System Administration	
Troubleshooting	
	WebSphere Status II ≤ Previous Next ≥ February 7, 2006 10.24455 AM GMT+05:30 Q Image: Comparison of the state of the stat
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iv. Click the rar file link. The following screen appears:

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Eile Edit View Go Bookmarks Tools Wind	dow <u>H</u> elp			
	://fn-nikhil:9090/admin/secur	e/logon.do		🔍
/ 🖽 🖌 🐔 Home My Netscape 🔍 Search	Customize			
Netscape - Enter Search Terms	Search	Highlight OPop-Ups Blocked: 12	🥜 Form Fill 👻 🦪 Clear Bi	rowser History 👼 News 🖂 Email 🏠 Weather 💈
New Tab 🛇 WebSphere Administrative Con	sole			
WebSphere. Application Server Add. Version 5	ministrative Console			
Home Save Preferences Logo	ut Help			00
User ID: admin	General Propertie	s		
fn-nikhil E Servers Applications Enterprise Applications Instal New Application	Uri	* ISRA1.rar		[1] A URI that, when resolved relative to the application URI, specifies the location of a module's archive contents on a file system. The URI must match the URI of a ModuleRef . URI in the deployment description of an application if the module was packaged as part of a deployed application (EAR).
Resources Security Environment System Administration Troubleshootina	Name	*		The name to use for the managed object which represents this live object. This managed object name acts as one component of a calculated hierarchical name that can be used with a ManagementAgent process to locate the live object's operational control interface at runtime.
	Atternate DD			The atDD URI for a given module.
	Deployment Id	* 1		I The "qualified name" of an application server.
	Starting Weight	* 1000		∐When the enterprise application contains multiple modules, the starting weight specified here can be used to give this module startup priority over other modules during server startup. Modules with lower startup order will be started first.
	WebSphere Status I	< Previous	Next >	February 7, 2006 10:24:45 AM GMT+05:30 🗘
	WebSphere Configur			
	Total Workspace Files 0	01	fotal Configuration Problems 2	
	Preferences			
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v. Under Additional Properties, click **Resource Adapter** link. The following screen appears:

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Netscape - Enter Search Terms	🗨 🔍 Search 🖋 Highlight 🚺 Pop-Ups Blocked: 12 🥜 Form Fill 🗸	🕜 Clear Browser History 🗮 News 🖸 Email 🔅 Weather 👒
New Tab 🛇 WebSphere Administrative Cons	ole	×
Version 5	ninistrative Console	
Home Save Preferences Logou		B B
User ID: admin	Archive Path * srapp INSTALL ROOT//fn-nikhl/ISRA Sar	Path to the installed RAR file containing the module for this resource adapter.
fn-nikhil Image: Servers Applications Install New Applications Install New Application Image: Security Image: Security Image: Security Image: Security Image: Security Image: Security Image: Security	Classpath S(APP_INSTALL_ROOT)/In-nikhi/ISRA_Sample.ear/ISRA1.rar	Alit of paths or JAR the names which together form the location for the resource provider classes. Casspath entries are separated by using the BHTER levy and must not contan path separator characters (surth as'; or '). Classpaths may contain variable (symbolic) names which are required. B.An optional path to any native installation nodes for specific JAR the names which are required. B.An optional path to any native likeraits (diffs, sols). Native path entries we separated by using the ENTER key and must not contain path separator characters (surth as '') or ''). Native paths may contain variable (symbolic) names which are substituted using a
Troubleshooting	Apply OK Reset Cancel Additional Properties <i>JCC</i> Connection Factories represent a set of connection <i>Custom Properties</i> Properties that may be required for Resource Provider vendors require additional custom properties for data s View Deployment Description View the Deployment Description	s and Resource Factories. For example, most database
	WebSphere Status [] < Previous	February 7, 2006 10:25:45 AM GMT+05:30 @
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- vi. Under Additional Properties, click **J2C Connection Factories** link and create a new connection factory. Refer to <u>Configuring</u> <u>Deployed ISRA</u> section for details.
- vii. After creating the connection factory, click the **Connection Factory** link. The following screen appears:

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_ File Edit View Go Bookmarks Tools Wind	ow <u>H</u> elp		
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WebSphera Application Server Adu Version 5 Home Save Preferences Logou	ministrative Co nt Help	onsole	
User ID: admin	Archive Path	★ \$YAPP INSTALL ROOT\/fn-nikhi/ISRA Sar	Path to the installed RAR file containing the module for this resource adapter.
fn-nikhil	Classpath	\$(APP_INSTALL_ROOT)/In-nikhi/MSRA_Sample.ear/K	SRAT Jar DA lat of paths or JAP file names which together from the location (for the rescurce provider classes Classpath entries are expended by using the B/TER levy and must not contain path segments (such as '', or ''). Classpaths may contain vaniable (symbol): names which are not substituted using a variable map. Check your drivers installation notes for specific JAR file manes which are required.
Security Environment System Administration Troubleshooting	Native Path		II An optional path to any native literates (dfs., so/s). Native path entries are separated by using the ENTER key and must not contain path separator characters (such as ', or '). Native paths any contain variable (symbolic) names which can be substituted using a variable may.
	Apply Additional		=
	J2C Connecti		a set of connection configuration values.
	Custom Prop		esource Providers and Resource Factories. For example, most database operties for data sources that will access the database.
	View Deploy	ment Descriptor View the Deployment Descriptor	
	WebSphere Sta	atus 🛙 <u>< Previous</u> Nex	t > February 7, 2006 10:26:46 AM GMT+05:30 Q
		Configuration Problems	
	Total Workspace	v	I Configuration Problems 2
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viii. Under Additional Properties, click on the **Custom Properties** link. The following screen appears:

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WebSphere. Application Server Ad	~			E IEM.
Home Save Preferences Logo	π Heip deploymentinstance	L	ISINA INSTAILCE TRACIS	laise
Jser ID: admin ín-nikhil			currently being deployed on a single machine; Min Value = 1, Max Value = 10.	
Servers Applications	domainName_	MOSERV_	Domain name of the Image Services Server	false
Enterprise Applications Install New Application Resources	inherentLogin.	0.	Inherently login through LDAP authentication or not 0-Direct IS Login(1-LDAP Authentication	false
JDBC Providers Generic JMS Providers	klapimpiClassName_	com.filenet.is.ra.fnis.FN_IS_IPlanetImpl_	LDAP Authentication Class Name	false
WebSphere JMS Provider WebSphere MQ JMS Provider	klapimplClassString	filenetserver;389;ou=filenet;ou=people;dc=filenetro	ot. Server details for LDAP Authentication.	false
Mail Providers Resource Environment Providers	logFileName_	ISRA1.log	ISRA Logfile name (can include path)	false
URL Providers Resource Adapters	logFileSize	5_	Maximum Size of ISRA LogFile (in mega bytes)	false
Security	loggingLevel	2	0-Exceptions and Warnings; 1-Info; 2-Debug Level	false
Environment System Administration	loggingMode_	3_	0-No Logging; 1-Console Logging; 2-File Logging; 3-Both/File and console)	false_
Troubleshooting				<u> </u>
	WebSphere Status 🗓	<u>< Previous</u> Next >	February 7, 2	006 10:31:49 AM GMT+05:30 👲
	WebSphere Runtime Mes		m: : 449 new, 449 total	Clear All
	Total All Messages: 452	S : 3 new, 3 total	. 449 New, 449 total	

- ix. Modify the value for LogFileName. This is the log file that will be written to for this instance. For example: enter ISRA1.log for the connection factory created for the first deployment, and ISRA2.log for the second.
- x. Modify other custom properties, if required. Refer to <u>Changing</u> <u>Parameters Specific to ISRA</u> section for details.

- xi. In web.xml, under the "LIBRARY_NAMES" parameter, add the created connection factory name of the respective sample application.
- xii. Repeat the above steps for the other instance.
- 5. Save all of the changes, and restart the server.
- 6. Login to each sample application and verify that there is a separate log file for each deployment.

PCHLogging

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

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Home Save Preferences Logout	Help						00
User ID: admin		s > ISRA > J2C Connec	tion Factories > ISCF	> <u>Custom Pro</u>	perties >		^
fnaixNetwork	PCHLogging						
Servers					ries. For example, most database vend	ors require additional	
Application Servers	custom properties to	r data sources that will a	access the database. 🛛				
JMS Servers	Configuration						
<u>Clusters</u> Cluster Topology							
Applications	General Proper	ties					
E Resources	Scope	cells:fnaixNetwork	:nodes:fnaix		I The scope of the con-		s
JDBC Providers					value indicates the confi the configuration file.	guration location for	
Generic JMS Providers	Required	false			I		
WebSphere JMS Provider	Name	PCHLogging			I Name associated with		
WebSphere MQ JMS Provider					example, PortNumber an	,	
Mail Providers Resource Environment Providers	Value	Disabled			Value associated with property set.	n this property in this	
URL Providers	Description	Parameter to enable	PCH Logging in ISRA		i Text to describe any I		11 🚽
Resource Adapters					well-defined values for t		
	Туре	java.lang.String			Fully qualified Java ty (java.lang.integer, java.la		
Environment					Garanangunagar, jaran	ng.oyto).	-
System Administration	WebSphere Status	1	< Previous	Next >	December 1, 2	2005 12:05:41 PM PKT	r 🕹 着
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	Total Configuration Pr	oblems:2	😗 : <u>0 t</u> i	tal	A: 2 total	: Ototal	
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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.

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😢 New Tab 🛇 WebSphere Administrative Cons	ole				
WebSphere Application Server Adm Version 5	ninistrative Console				
User ID: admin	1	SRA > J2C Connection Factories > ISCF > Custom Properti			
	AllowAnonymous				
fnaixNetwork		av be required for Resource Providers and Resource Factories.	For eventile most database usedare require additional		
Application Servers		ta sources that will access the database.	r or example, most database vendors require additional		
JMS Servers	Configuration				
Clusters					
Cluster Topology					
Applications	General Properties				
Resources JDBC Providers	Scope	 cells:fnaixNetwork:nodes:fnaix 	The scope of the configured resource. This value indicates the configuration location for the configuration file.		
Generic JMS Providers	Required	false	I		
WebSphere JMS Provider WebSphere MQ JMS Provider	Name	AllowAnonymousUser	Name associated with this property (for example, PortNumber and ConnectionURL).		
Mail Providers Resource Environment Providers	Value	true	I ∨alue associated with this property in this property set.		
URL Providers Resource Adapters	Description	LDAP Anonymous user login flag	Text to describe any bounds or well-defined values for this property.		
In Security	Туре	java lang Boolean	Fully qualified Java type of this property (java.lang.Integer, java.lang.Byte).		
Environment					
System Administration	WebSphere Status 📋	< <u><previous< u=""> <u>Next></u></previous<></u>	December 1, 2005 12:04:40 PM PKT 🧕		
Troubleshooting	WebSphere Runtime I		Clear All		
	Total All Messages:1141	336 new, 336 total 58 new, 58 total	: 747 new, 747 total		
	Preferences		•		
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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.

WebSphere Administrative Console - Netscape					
_ E/e Edit View Go Bookmarks Iools Window Help					
🜀 🗿 🕼 🚫 🔊 http://fnak::994/admin/secure/logon.do					
Home My Netscape 🔍 Search	Customize	WebSphere A 🛇 WebSphere A			
		arch 🧈 Highlight 🔰 Pop-Ups Blocked: 1 🧳 Form Hill 👻 🌌 Clear	Browser History 👼 News 🖂 Email 🔅 Weather 🚿		
New Tab 🛇 WebSphere Administrative Const	ole		×		
WebSphere. Application Server Adm Version 5					
User ID: admin		ISRA > J2C Connection Factories > ISCF > Custom Properties >	F		
fnaixNetwork	RPCLogging				
Servers		that may be required for Resource Providers and Resource Factories. For ex for data sources that will access the database. [1]	ample, most database vendors require additional		
Application Servers					
JMS Servers	Configuration				
Clusters Cluster Topology					
Applications	General Prope	rties			
Resources JDBC Providers	Scope	* cells: fnaixNetwork:nodes: fnaix	The scope of the configured resource. This value indicates the configuration location for the configuration file.		
Generic JMS Providers	Required	false			
WebSphere JMS Provider	Name	RPCLogging	Name associated with this property (for		
WebSphere MQ JMS Provider			example, PortNumber and ConnectionURL).		
Mail Providers Resource Environment Providers	Value	1	I Value associated with this property in this property set.		
URL Providers Resource Adapters	Description	0-Exceptions and Warnings; 1-Info; 2-Debug Level	Text to describe any bounds or well-defined values for this property.		
	Туре	java.lang.integer	Fully qualified Java type of this property (java.lang.Integer, java.lang.Byte).		
Environment		·			
 System Administration 	WebSphere Status	<u>< Previous</u> Next >	December 1, 2005 12:04:40 PM PKT 👲		
Troubleshooting	WebSphere Runti	me Messages	Clear All		
	Total All Messages:1	141 🚳 : 336 new, 336 total 🔥 : 58 new, 58 total	1.: 747 new, 747 total		
	Preferences ■				
🕲 🖂 🙏 🖓 📋 Done					

Configuring WebSphere-Specific Parameters

Once the configurable properties are set for ISRA, the Application Serverspecific parameters need to be configured. In case of WebSphere server, the properties that need to be specified are:

- Connection Timeout
- Maximum Connections
- Minimum Connections
- Reap Time
- Unused Timeout
- Aged Timeout
- Purge Policy
- DisableMultiThreadedServletConnectionMgmt

The steps to configure these properties are:

- 1. Click Resources > Resource Adapters > ISRA > J2C Connection Factories > ConnectionFactoryName (ISCF) > Connection Pool.
- 2. Set the Connection timeout, Maximum connections, Minimum connections, Reap time, Unused timeout, Aged Timeout and Purge Policy.

	http://fn_testw2ks:9090	/admin/secure/logon.do		🔽 🔍 Search 🛛 🖧 🔊
WebSphere. Application Server Version 5	Administrative Conso	le		
Home Save Preferences L Jser ID: admin	Connection Pools	5		[
n_testw2ks				connection pool manager. Default values are nfiguration values is recommended. 🚺
Resources	General Properties			
JDBC Providers Generic JMS Providers WebSphere JMS Provider WebSphere MQ JMS Provider	Scope	cells:fn_testw2ks:nodes:fn_	testw2ks	The scope of the configured resource. This value indicates the configuration location for the configuration file.
Mail Providers Resource Environment Providers URL Providers	Connection Timeout	180	seconds	Interval, in seconds, after which a connection request times out and a Connection/VaitTimeoutException is thrown.
Resource Adapters	Max Connections	10	connections	The maximum number of ManagedConnections that can be created in this pool.
 System Administration Troubleshooting 	Min Connections	þ	connections	The minimum number of ManagedConnections that should be maintained.
	Reap Time	180	seconds	Interval, in seconds, between runs of the pool maintenance thread.
	Unused Timeout	1800	seconds	 Interval, in seconds, after which an unused connection is discarded by the pool maintenance thread.
	Aged Timeout	þ	seconds	Interval, in seconds, after which an unused, aged connection is discarded (regardless of recent usage activity) by the pool maintenance thread.
	Purge Policy	EntirePool		Specifies how to purge connections when a "stale connection" or "fatal

A description of each attribute is given below:

• **Connection Timeout:** Defines the time (in milliseconds) that the Pool Manager waits after reaching the maximum number of connections to abort and throw a ResourceAllocationException. If the maximum number of connections is not reached or is set to zero (0), the Connection Timeout will not be used.

If the Connection Timeout is zero (0), the Pool Manager will wait indefinitely.

- Maximum Connections: Represents 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 Connection Timeout or a ResourceAllocationException to be thrown. If Maximum Connections is set to zero (0), then the number of connections can grow indefinitely. Maximum Connections must be greater than or equal to Minimum Connections.
- **Minimum Connections:** Represents minimum number of Managed Connections maintained by the Application Server. If this number is reached, the garbage collector will not discard any Managed Connections. If the actual number of connections is lower than the value specified by the minimum connections settings, no attempt will be made to increase the number of connections to the minimum. Minimum Connections must be less than or equal to Maximum Connections. Set this value to 0 for ISRA.
- **Reap Time:** Represents the time (in seconds) after which the garbage collector runs. The garbage collector discards all unused connections for the value specified by the Unused timeout.

- **Unused timeout:** Represents the time (in milliseconds) after which an unused connection is discarded. If this value is set to 0 the garbage collector is disabled.
- **Aged timeout:** Specifies the interval (in seconds) after which an unused, aged connection is discarded. Set the Aged Timeout value higher than the Reap Timeout value for optimal performance
- **Purge Policy:** Specifies how to purge connections when a stale connection or fatal connection error is detected. If user sets the purge policy for this data source object to EntirePool, all connections in the pool are marked stale. Any connection not in use is immediately closed. If user sets the purge policy for this data source object to FailingConnectionOnly, only the connection that caused the StaleConnectionException is closed.
- DisableMultiThreadedServletConnectionMgmt: In WAS 5, Web container closes JCA connection, immediately after exiting from doGet() or doPost() method of JSP/Servlet. According to the JCA specification, CCI Connection should remain open after a JSP/servlet completes a doPost() or doGet() method and should be terminated via a destroy () method invocation.

To overcome this limitation, user should download/install fix PQ73966 or Fix Pack 2 and set

DisableMultiThreadedServletConnectionMgmt property to true by taking following steps.

i. Click Application Servers > {server name} > Web Container > Custom Properties. The following screen appears:

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Servers	Custom Properties	
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ii. Click New.

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- iii. Enter "DisableMultiThreadedServletConnectionMgmt" into the Name field and enter "true" into the Value field
- iv. Save the configuration and restart the Application Server.
- **Note** It is recommended that user should set the values of the Reap Time and Unused timeout to ensure that WebSphere and ISRA free the unused IS server resources. The actual values of these parameters depend on the application scenario, but in general, they should be set to a low value to free the IS resources. For Example, set **Unused timeout** to 30000 milliseconds (30 Seconds) and **Reap time** to 120 Seconds (2 minutes).

Configuring WebSphere-Specific Parameter for Globalization Support

To configure the WebSphere specific parameters for globalization support:

1. Navigate to **Server > Application Server**. A list of application server instances is displayed.

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2. Click the server instance, here **server1**. The following screen appears:

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New Tab 🛇 WebSphere Administrative Con	Isole	
WebSphere Application Server Ad Version 5	ministrative Console	
er ID: admin		transport settings.
	EJB Container	Specify cache and datasource information for the container.
-monikam1	Dynamic Cache Service	Specify settings for the Dynamic Cache service of this server.
Servers	Logging and Tracing	Specify Logging and Trace settings for this server.
Application Servers Applications Resources	Message Listener Service	Configuration for the Message Listener Service. This service provides the Message Driven Bean (MDB) istening process, whereby MDBs are deployed against ListenerPorts that define the JMS destination to listen upon. These Listener Ports are defined within this service along with settings for its Thread Pool.
Security	ORB Service	Specify settings for the Object Request Broker Service.
Environment System Administration	Custom Properties	Additional custom properties for this runtime component. Some components may make use of custom configuration properties which can be defined here.
Troubleshooting	Administration Services	Specify various settings for administration facility for this server, such as administrative communication protocol settings and timeouts.
	Diagnostic Trace Service	View and modify the properties of the diagnostic trace service.
	Debugging Service	Specify settings for the debugging service, to be used in conjunction with a workspace debugging client application.
	BM Service Logs	Configure the IBM service log, also known as the activity log.
	Custom Services	Define custom service classes that will run within this server and their configuration properties.
	Server Components	Additional runtime components which are configurable.
	Process Definition	A process definition defines the command line information necessary to start/initialize a process.
	Performance Monitoring Service	specify settings for performance monitoring, including enabling performance monitoring, selecting the PMI module and setting monitoring levels.
	WebSphere Status i	<u>< Previous</u> <u>Next ></u> March 13, 2006 4:40:01 PM IST @
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3. Under Server Additional Properties, click **Process Definition** link. The following screen appears:

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fn-monikam1	Process Definition		
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Application Servers	Configuration		
Applications			
Resources	General Properties		
Security Environment	Executable name		I Specifies the executable name of the
System Administration	1		process.
System Autimistration Troubleshooting	Executable arguments		Specifies executable commands that run when the process starts.
	Working directory *	KUSER_INSTALL_ROOT}	Specifies the file system directory in which the process will run.
	Additional Properties Java Virtual Machine Advanced J	ava virtual machine settings.	
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4. Under Additional Properties, click **Java Virtual Machine** link. The following screen appears:

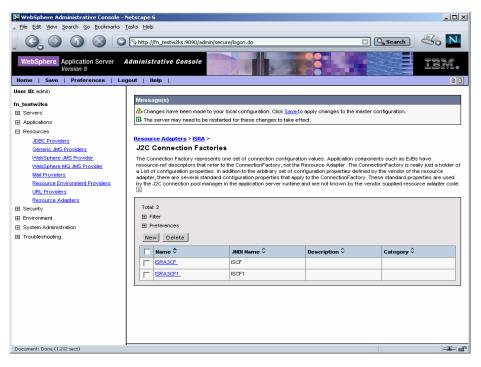
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	Kun HProt		Specifies whether to use HProt profiler
User ID:admin fn-monikam1 ⊡ Servers			support. To use another profiler, specify the custom profiler's settings using the HProf Arguments setting. The default is not to enable HProf profiler support.
Application Servers Applications Resources	HProf Arguments		① Specifies command-line profiler arguments to pass to the Java virtual machine that starts the application server process. You can specify arguments when HProf profiler support is enabled.
Security Environment System Administration	Debug Mode		Specifies whether to use the JVM debug output. The default is not to enable debug mode support.
Troubleshooting	Debug arguments	-Djava.compiler=NONE -Xdebug -Xn	[I] Specifies command-line debug arguments to pass to the Java virtual machine that starts the application server process. You can specify arguments when Debug Mode is enabled.
	Generic JVM arguments	-Dclient.encoding.override=UTF-8	Additional command line arguments for the JVM.
	Executable JAR file name		Specifies a full path name for an executable jar file that the Java virtual machine uses.
	Disable JIT		Configure the JVM such that the Just-In-Time (JIT) compiler is disabled.
	Operating system name		Specifies JVM settings for a given
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5. Include -Dclient.encoding.override=UTF-8 in the General JVM argument list.

Configuring Multiple IS Servers with ISRA

To configure ISRA for accessing multiple IS servers, create a Connection Factory for each IS that user wants to connect.

The following screen shows Connection Factories configured for multiple IS servers:



4 Configuring and Deploying ISRA Sample Application

The 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 IBM WebSphere Server 5.

Note ISRA product media comes with a 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 WebSphere Application Server to access ISRA in a standalone or clustered 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 and 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>

- **3.** 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.

4. Bundle crimson.jar within "WEB-INF\lib" directory of ISRASampleWEB.war.

IBM WebSphere Application Server does not provide the crimson implementation of DocumentBuilderFactory class.

The Sample Application uses crimson implementation of DocumentBuilderFactory class to implement the Remote printing functionality.

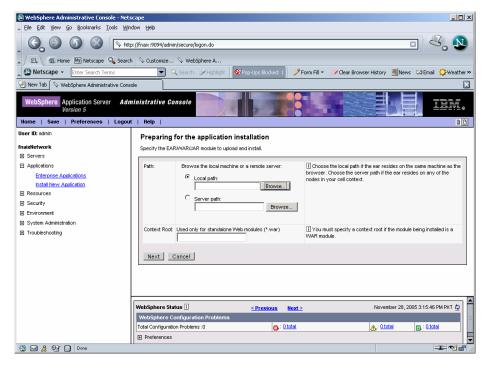
- 5. Update web.xml in ISRASampleWEB.war.
- 6. Update ISRASampleWEB.war in ISRASample.ear.

Deploying the Sample Application in a Standalone Environment

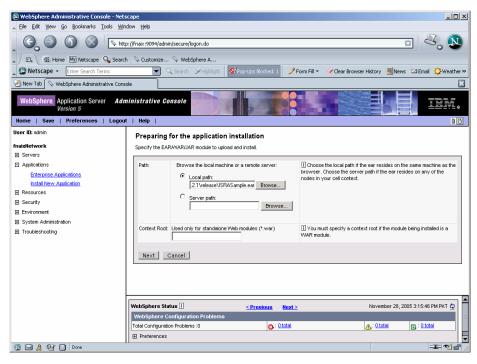
This section describes how to deploy the Sample Application on a WebSphere Server to access ISRA in a standalone environment.

ISRA Sample Application is deployed through the WebSphere Network Manager Administrative console. The steps to deploy are:

- Start the WebSphere First Steps. Login as the root user, change directory to /<Websphere home>/AppServer/firststeps and execute the firststeps.sh script, as follows:
 - # cd /<Websphere home>/AppServer/firststeps
 - # ./firststeps.sh
- 2. Login to the WebSphere Administrative console
- Click Applications > Install New Application. The following screen appears:



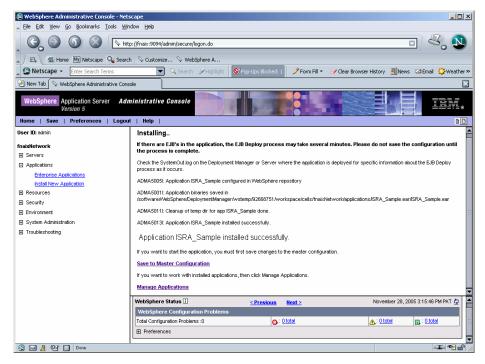
4. Click **Browse** to locate the **ISRASample.ear** and deploy the Sample Application in the target environment. Also, specify a name for the Sample Application.



5. Click Next until the Summary screen appears.

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6. Click Finish. The following screen appears:



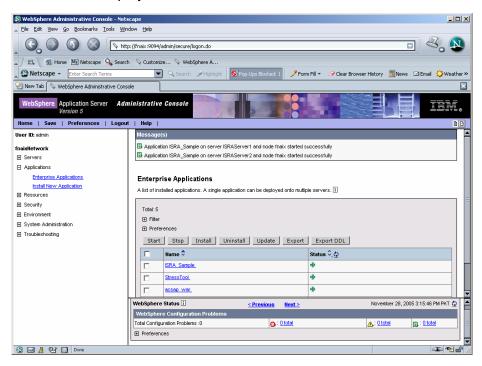
7. Click Save to Master Configuration. The following screen appears:

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Environment	Save to Master Configuration
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Troubleshooting	again using the master repository configuration. Click the Cancel button to continue working with your changes.
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8. Click **Save** to complete the Sample Application deployment. The following screen appears:



 Click Applications > Enterprise Applications. Check against ISRA_Sample and click Start. A message, as shown in the screen below, is displayed:



Deploying the Sample Application in a Clustered Environment

This section describes how to deploy the Sample Application on a WebSphere Server to access ISRA in a clustered environment.

Note Sample Application must be deployed on an environment where session affinity is enabled.

ISRA Sample Application is deployed through the WebSphere Network Manager Administrative console. The steps to deploy are:

- 1. Start the WebSphere First Steps. Login as the root user, change directory to <DeploymentManager home>/firststeps and execute the firststeps.sh script, as follows:
 - # cd <DeploymentManager home>/firststeps
 - # ./firststeps.sh
- 2. Login to the WebSphere Network Manager admin console.
- 3. Click Applications > Install New Application. The following screen appears:

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Enterprise Applications	browser. Choose the server path if the ear resides on any of the
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4. Click **Browse** to locate the **ISRASample.ear** and deploy the Sample Application in the target environment. Also, specify a name for the Sample Application in Context Root text box.

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5. Click **Next**. The following screen appears:

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Version 5	ministrative Console
	rt Help D
User ID: admin	Preparing for the application installation
fnaixNetwork	Specify the EAR/WAR/JAR module to upload and install.
Applications Enterorise Applications Instal New Application Resourity Environment System Administration	Path: Browse the local machine or a renote server: C Local path:
Troubleshooting	Context Root: Used only for standalone Web modules (*.war)
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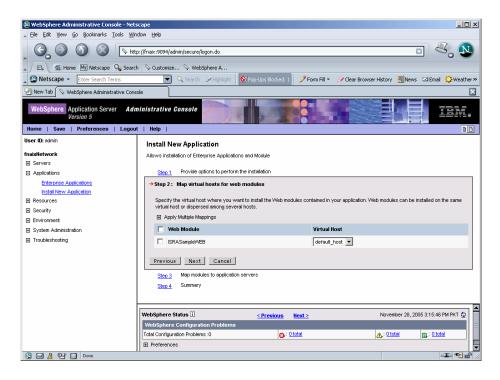
6. Click **Next**. The following screen appears:

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User ID: admin		e default bindings and mappings.			<u> </u>
fnaixNetwork		e dendale bindingle dina mappingle. 🖂			
	🗌 Generate Default B	ndings			
Applications	Override:		Concrete default	bindings for existing entries and	i over write
Enterprise Applications	overnue.	O not override existing bindings	them.	orraings for existing entries and	A DYCI WINC
Install New Application		C Override existing bindings			
E Security	Virtual Host		The virtual bost to	be used for this web module.	
Environment	The contract	C Do not default virtual host name for web modules			_
E System Administration					-
Troubleshooting		Operault virtual host name for web modules:			
		default_host			
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7. Click **Next**. The following screen appears:

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WebSphere Application Server Version 5	Administrative Console	
	ogout Help Specify the various options available to pre	pare and install your application
User ID: admin	AppDeployment Options	Enable
fnaixNetwork	Pre-compile JSP	
Servers Applications	Directory to Install Application	
Enterprise Applications	Distribute Application	
Install New Application	Use Binary Configuration	Г
Resources	Deploy EJBs	0
Security Environment	Application Name	ISRA_Sample
 System Administration 	Create MBeans for Resources	
Troubleshooting	Enable Class Reloading	
	Reload Interval in Seconds	0
	Deploy WebServices	
	Next Cancel	
	Sten 2 Map virtual hosts for web module	Jes
	WebSphere Status i	< Previous Next > November 28, 2005 3:15:46 PM PKT Q
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8. Click **Next.** The following screen appears:



9. Click Next. The following screen appears:

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🐏 New Tab 🛇 WebSphere Administrative Cons	ole		
Version 5	ninistrative Console		
Home Save Preferences Logou	t Help		
User ID: admin	Allows installation of Enterprise Applications and Module		
fnaixNetwork	Step 1 Provide options to perform the installation		
Servers	Step 1 Provide options to perform the installation Step 2 Map virtual hosts for web modules		
Applications			
Enterprise Applications Install New Application El Resources El Security Environment Environment System Administration	Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed among several servers. Clusters and Servers: [WebSphere Cell=InduNetWork,cluster=ISRACLuster] Apply		
Troubleshooting	Module URI Server		
	ISRASampleWEB ISRASampleWEB.war,WEB-INF/web.xml WebSphere:cell=fnaixNetwork,node=fnaixManager,cluster=ISRACLuster		
	Previous Next Cancel		
	<u>Step 4</u> Summary		
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- **10.** Select the Cluster/Server from **Clusters and Servers** list and check the module. Click **Apply**.
- 11. Click Next, the Summary screen appears.

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WebSphere Application Server Administrative Console WebSphere Application Server Administrative Console Nome Swe Preferences Logout Nome Swe Preferences Logout			
User ID: admin	Summary of Install Options		
fnaixNetwork	Options		Values
E Servers	Distribute Application		Yes
Applications	Use Binary Configuration		No
Enterprise Applications	Cell/Node/Server		Click here
Install New Application	Enable Class Reloading		No
Resources	Create MBeans for Resources		Yes
B Security	Deploy EJBs		No
Environment	Reload Interval in Seconds		0
System Administration	Application Name:		ISRA_Sample
Troubleshooting	Directory to Install Application		
	Pre-compile JSP		No
	Application Name		ISRA_Sample
	Deploy WebServices		No
	Previous Finish Cancel		
	WebSphere Status i	<u>< Previous</u> <u>Next ></u>	November 28, 2005 3:15:46 PM PKT 🙆 📥
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12. Click **Finish.** The following screen appears:

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🕘 New Tab 🛇 WebSphere Administrative Cor	sole		
WebSphere Application Server Ad Version 5 Home Save Preferences Logo Logo	Ininistrative Console		
User ID: admin	Installing		
fnaixNetwork	If there are EJB's in the application, the EJB Deploy process may take several minutes. Please do not save the configuration until the process is complete.		
Applications Enterprise Applications	Check the SystemOut log on the Deployment Manager or Server where the application is deployed for specific information about the EJB Deploy process as it occurs.		
Install New Application	ADMA5005I: Application ISRA_Sample configured in WebSphere repository		
Resources Security	ADMA50011: Application binaries saved in /software/WebSphere/Deployment/Manager/wstemp/92666751/workspace/cells/fnaix/Network/applications/ISRA_Sample.ear		
Security Security Environment	ADMA5011I: Cleanup of temp dir for app ISRA_Sample done.		
System Administration	ADMA5013t Application ISRA_Sample installed successfully.		
Troubleshooting	Application ISRA_Sample installed successfully.		
	If you want to start the application, you must first save changes to the master configuration.		
	Save to Master Configuration		
	If you want to work with installed applications, then click Manage Applications.		
	Manage Applications		
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13. Click **Save to Master Configuration.** The following screen appears:

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New Tab 🛇 WebSphere Administrative Cons	ole 🔀		
WebSphere Application Server Adm Version 5	ninistrative Console		
Home Save Preferences Logour	t Help DD		
User ID: admin	Message(s)		
fnaixNetwork	⚠ Changes have been made to your local configuration. Click Save to apply changes to the master configuration.		
Servers	The server may need to be restarted for these changes to take effect.		
Applications			
Enterprise Applications	Enterprise Applications >		
Install New Application	Save		
Resources	Save your workspace changes to the master configuration		
Environment	Save to Master Configuration		
System Administration Troubleshooting	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work again using the master repository configuration. Click the Cancel button to continue working with your changes.		
-	Total changed documents: 9		
	Synchronize changes with Nodes		
	Save Discard Cancel		
	WebSphere Status 🗄 < <u>Previous</u> November 28, 2005 3:15:46 PM PKT 🖉		
	WebSphere Configuration Problems		
	Total Configuration Problems : 0 🚯 : 0 total 🚯 : 0 total		
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14. Enable the Synchronize Changes with Nodes check box. Click Save to complete the deployment of Sample Application. The following screen appears:



15. Click Applications > Enterprise Applications. Check against ISRA_Sample and click Start. A message, as shown in the screen below, is displayed:

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Netscape - Enter Search Terms	🔹 🔍 Search 🖋 Highlight 🛛 🕺 Pop-Ups Blocked: 1	🧳 Form Fill 👻 🥔 Clear Browser History 🛛 👼 News 🖂 Email 🔅 Weather »	
🕘 New Tab 🛇 WebSphere Administrative Console			
WebSphere Application Server Administrative Version 5			
Home Save Preferences Logout Help User ID: admin Message			
ImaixItetwork III. Applica III. Servers III. Applica III. Applications Enterpre- Instal New Applications	ation ISRA_Sample on server ISRAServer1 and node fnaix ation ISRA_Sample on server ISRAServer2 and node fnaix rrise Applications statled applications. A single application can be deployed of r	started successfully	
	acsap war		
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WebSphe	ere Configuration Problems guration Problems :0		
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16. Click **Environment -> Update Web Server Plugin.** The following screen appears:

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Version 5	ninistrative Console		
Home Save Preferences Logou	nt Help Message(s)		D D
	The web server plugin configuratio	n united automatical subsection in the	
fnaixNetwork Servers	Britie web server plugin configuratio	n was upualeu successiuny	
Applications			
Resources	Update web server plugin configuration		
Security	The web server plugin configuration file controls what content is transferred from the web server to an application server. This file must be regenerated when server, cluster, HTTP transport, or virtual host alias configurations are changed. The generated plugin-cfg.xm file is placed in the		
Environment			machine, you must manually move this file to that machine.
Update Web Server Plugin	Click the OK button to update the plugi	n configuration file.	
Virtual Hosts Manage WebSphere Variables	OK Cancel	-	
Shared Libraries	View or download the curre	nt web server plugin configuration fil	0
Internal Replication Domains		ne web server plugin conliguration in	
 System Administration 			
Troubleshooting			
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17. Click OK.

Note The user should update Web Server Plugin after deploying Web/Enterprise applications.

Deployment of the FileNet Image Viewer in the Standalone Environment

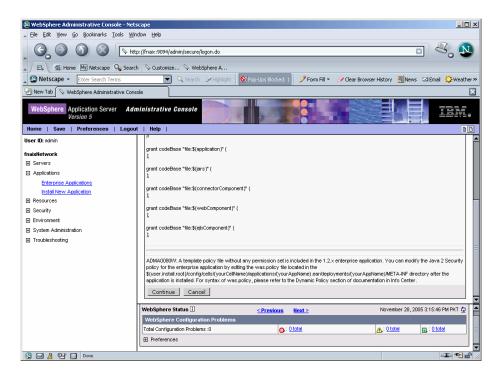
The FileNet Image viewer is used by the ISRA Sample Application to display documents of specific mime types (TIFF, JPEG and BMP). Skip this section and move to the next, if you do not want the FileNet Image Viewer configured with the ISRA Sample Application.

The steps to deploy the FileNet Image Viewer are:

1. Launch the WebSphere Administrative Console. Click **Applications** > Install New Application.

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WebSphera Application Server Adulation Version 5 Home Save Preferences Logour	ministrative Console		
User ID: admin	Preparing for the application	installation	
fnaixNetwork	Specify the EAR/WAR/JAR module to upl		
E Servers	Specify the EARWARKARY module to up	Jau anu Instan.	
Applications <u>Enterprise Applications Instal New Application Resources Security Environment System Administration </u>	Path: Browse the local mac	bro	Choose the local path if the ear resides on the same machine as the wear. Choose the server path if the ear resides on any of the les in your cell context.
Troubleshooting	Context Root: Used only for standalon		You must specify a context root if the module being installed is a R module.
	Next Cancel		
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2. Click Browse. Navigate through the ISRA installation directory and choose FNImageViewer.ear. Click Next, until the Summary page appears.



3. Click **Finish.** The following screen appears:

WebSphere Administrative Console - Net	scape			
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🤏 New Tab 🔇 📎 WebSphere Administrative Con	;ole			
Version 5	ninistrative Console			
User ID: admin	If there are EJB's in the application, the EJB Deploy process may take several minutes. Please do not save the configuration until the process is complete.			
fnaixNetwork ⊞ Servers	Check the SystemOut log on the Deployment Manager or Server where the application is deployed for specific information about the EvB Deploy process as it occurs.			
Applications	ADMA5016L Installation of FNimageViewer started. ADMA5005L Application FNimageViewer configured in WebSphere repository ADMA5001L Application binaries saved in			
Enterprise Applications Install New Application				
Resources				
	/software/WebSphere/DeploymentManager/wstemp/92668751/workspace/cells/fnaixNetwork/applications/FNImageViewer.ear/FNImageViewer.ear			
Environment System Administration	ADMA5011I: Cleanup of temp dir for app FNImageViewer done.			
System Administration Troubleshooting	ADMA5013I: Application FNImageViewer installed successfully.			
	Application FNImageViewer installed successfully.			
	If you want to start the application, you must first save changes to the master configuration.			
Save to Master Configuration If you want to work with installed applications, then click Manage Applications. Manage Applications				
				WebSphere Status ii Previous Next ≥ November 28, 2005 3:21:53 PM PKT © PM
				WebSphere Runtime Messages Clear All
	Total All Messages: 900 👩 : <u>316 new, 316 total</u> 🔥 : <u>23 new, 23 total</u> 📑 : <u>561 new, 561 total</u>			
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4. Click Save to Master Configuration. The following screen appears:

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Home Save Preferences Logou	t Help DD		
User ID: admin	Message(s)		
fnaixNetwork	A Changes have been made to your local configuration. Click Save to apply changes to the master configuration.		
E Servers	II The server may need to be restarted for these changes to take effect.		
Applications			
Enterprise Applications	Enterprise Applications >		
Install New Application	Save		
Resources	Save your workspace changes to the master configuration		
Security			
Environment	Save to Master Configuration		
System Administration	Click the save button to update the master repusitory with your changes. Click the Discard button to discard your changes and begin work		
🖼 Troubleshooting again using the master repository configuration. Click the Cancel button to continue working with your changes.			
	Total changed documents: 10		
	Synchronize changes with Nodes		
Save Discard Cancel			
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	WebSphere Runtime Messages Clear All		
	Total All Messages:900 🚯 : <u>316 new, 316 total</u> 🔬 : <u>23 new, 23 total</u> 🔃 : <u>561 new, 561 total</u>		
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5. Click **Save**. The following screen appears:

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New Tab C Loading WebSphere Application Server Administrative Console Version 5 Version 5 Home Save Preferences Logout User ID: edinin Message(s) If naktletwork B Application FNimageViewer on server ISRAServer1 and node fraix started successfully B Servers Application FNimageViewer on server ISRAServer2 and node fraix started successfully	IEM.		
WebSphere Application Server Administrative Console Version 5 Version 5 Home Save Preferences Logout User ID: admin Message(s) If naktletwork ID: Application FNimageViewer on server ISRAServer1 and node finalx started successfully ID: Servers ID: Application FNimageViewer on server ISRAServer2 and node finalx started successfully	IBM.		
Version 5 Home Save Preferences Logout Help User ID: admin Message(s)	D IIM.		
Image/Texastret Image/Texastret Servers Image/Texastret Image/Texastret Server2 and node fnaix started successfully Image/Texastret Image/Texastret Server2 and node fnaix started successfully			
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6. Click Applications > Enterprise Applications. Enable the FNImageViewer check box and click Start.

Note FNImageViewer.ear is located under the sample subfolder in the ISRA installation directory. FileNet Image Viewer files (FNImageViewer.jar) and FileNet Image Viewer documentation is located in the FNImageViewer\docs subfolder in the ISRA installation directory.

Deployment of the FileNet Image Viewer in a Clustered Environment

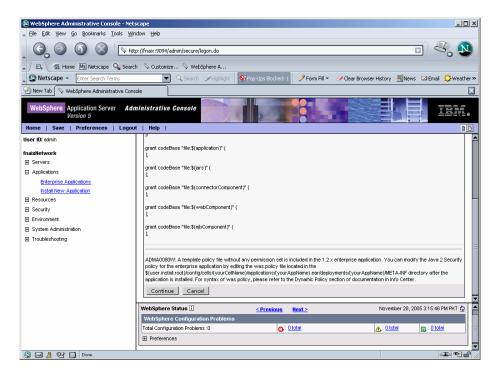
The FileNet Image viewer is used by the ISRA Sample Application to display documents of specific mime types (TIFF, JPEG and BMP). Skip this section and move to the next, if you do not want the FileNet Image Viewer configured with the ISRA Sample Application.

The steps to deploy the FileNet Image Viewer are:

 Launch the WebSphere Network Manager Administrative Console. Click Applications > Install New Application. The following screen appears:

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😢 New Tab 🛇 WebSphere Administrative Con:	sole		
WebSphere Application Server Adu Version 5	ministrative Console		
User ID: admin			
fnaixNetwork	Preparing for the application in Specify the EAR#WAR/JAR module to upload		
Applications Enterprise Applications Instal New Application Resources Security Derivionment Description	Patr: Browse the local machine C Local patr: C Server patr:	browser	e the local path if the ear resides on the same machine as the . Choose the server path if the ear resides on any of the your cell context.
System Administration Troubleshooting	Context Root: Used only for standalone V	eb modules (*.war) I You m WAR mo	nust specify a context root if the module being installed is a dule.
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	Total Configuration Problems :0	(0): O total	A: O total
	Preferences		
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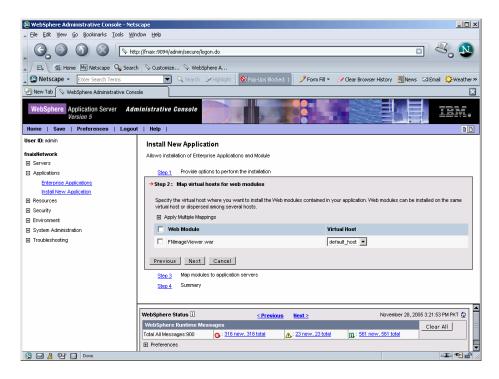
2. Click **Browse.** Navigate through the ISRA installation directory and choose FNImageViewer.ear. Click **Next**, until the **Summary** page appears.



3. Click Continue. The following screen appears:

B WebSphere Administrative Console	Netscape)
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🕘 New Tab 🛇 WebSphere Administrative	Console	E
WebSphere Application Server Version 5	Administrative Console	0
User ID: admin	Directory to Install Application	٦
fnaixNetwork	Distribute Application	
	Use Binary Configuration	
 Applications Enterprise Applications 	Deploy EJBs	
Instal New Application	Application Name FNImageViewer	
Resources	Create MBeans for Resources	
Security Environment	Enable Class Reloading	
 Environment System Administration 	Reload Interval in Seconds 0	
Troubleshooting	Deploy WebServices	
	Next Cancel Step 2 Map virtual hosts for web modules	
	Step 3 Map modules to application servers	
	Step 4 Summary	
	WebSphere Status ii November 28, 2005 3:15:46 PM PKT ()	Π
	WebSphere Configuration Problems Total Configuration Problems :0 O: 0 total D: 0 total	
	Preferences	ļ
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4. Click Next. The following screen appears:



5. Click Next. The following screen appears:

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	pr//Fnaic:9094/admin/secure/logon.do		
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New Tab S WebSphere Administrative Cons	sole		
Version 5	ministrative Console		
	nt Help D		
User ID: admin	Install New Application		
fnaixNetwork	Allows installation of Enterprise Applications and Module		
E Servers	Step 1 Provide options to perform the installation		
Applications			
Enterprote Applications Instal New Application Elescources Security Environment System Administration	Step 3: Map modules to application servers Specify the application server where you want to install modules contained in your application. Modules can be installed on the same server or dispersed anong serveral servers. Clusters and Servers:		
Troubleshooting	WebSphere:cell=fnaixNetwork;cluster=ISRACLuster Apply		
	✓ Module URI Server		
	FilmageViewer.war [FilmageViewer.war WEB-INF/web.xml] WebSphere:cell=fnaixNetwork.node=fnaixManager.cluster=ISRACLuster		
	Finalge viewer war Humage viewer war web-init web xml web-spirale cell-maxweb work hope-maxwarager, bioset-is re-closed		
Previous Next Cancel			
	Closed Summary		
	WebSphere Status 🗓 < Previous Next > November 28, 2005 3:21:53 PM PKT 👲		
	WebSphere Runtime Messages Clear All		
	Total All Messages:900 👩 : 316 new, 316 total 🛕 : 23 new, 23 total 🔲 : 561 new, 561 total		
	Preferences		
🕲 🖂 👌 🖓 🛄 Done			

- 6. Select the Cluster/Server from **Clusters and Servers** list and check the module and click **Apply**.
- 7. Click Next. The following screen appears:

🕲 WebSphere Administrative Console - Net:	cape	
🔺 Eile Edit Yiew Go Bookmarks Iools Wir	dow Help	
, G, O () () the	o://fnaix:9094/admin/secure/logon.do	
🚬 / 🖽 🖌 🏦 Home 🔤 Netscape 🔍 Searc	Customize 🛇 WebSphere A	
Netscape - Enter Search Terms	Search SHighlight OPop-Ups Blocked: 1	🥜 Form Fill 👻 🥔 Clear Browser History 🗒 News 🖾 Email 🔅 Weather »
😢 New Tab 🛇 WebSphere Administrative Cons	ole	X
WebSphere Application Server Adr. Version 5		
Home Save Preferences Logou	t Help Summary of Install Options	
fnaixNetwork	Options	Values
Servers	Distribute Application	Yes
Applications	Use Binary Configuration	No
Enterprise Applications	Cell/Node/Server	Click here
Install New Application	Enable Class Reloading	No
Resources	Create MBeans for Resources	Yes
E Security	Deploy EJBs	No
Environment	Reload Interval in Seconds	0
System Administration	Application Name:	FNImageViewer
Troubleshooting	Directory to Install Application	
	Pre-compile JSP	No
	Application Name	FNImageViewer
	Deploy WebServices	No
	Previous Finish Cancel	
	WebSphere Status i < Previous	Next > November 28, 2005 3:21:53 PM PKT 🗘
	WebSphere Runtime Messages	Clear All
		23 new, 23 total 1 : 561 new, 561 total
	Preferences	
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8. Click **Finish**. The following screen appears:

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🖌 🖾 Home 🔤 Netscape 🔍 Sear	ch 🛇 Customize 🛇 WebSphere A		
Netscape - Enter Search Terms	🔽 🔍 Search 🌛 Highlight 🛛 🕺 Pop-Ups Blocked: 1 📝 Form Fill 👻 🥜 Clear Browser History 👼 News 🖙 Email 👙 Weather:		
New Tab 🛇 WebSphere Administrative Co	rsole		
Version 5	Iministrative Console		
User ID: admin	If there are EJB's in the application, the EJB Deploy process may take several minutes. Please do not save the configuration until the process is complete.		
fnaixNetwork E Servers	Check the SystemOut log on the Deployment Manager or Server where the application is deployed for specific information about the E/B Deploy process as it occurs.		
Applications	ADMAS016L Installation of FNImageViewer started. ADMAS005L Application FNImageViewer configured in WebSphere repository ADMAS001L Application binaries saved in		
Enterprise Applications Install New Application			
Resources			
Security	/software/WebSphere/DeploymentManager/wstemp/92668751/workspace/cells/fnaixNetwork/applications/FNImageViewer.ear/FNImageViewer.ear		
Environment	ADMA5011: Cleanup of temp dir for app FNImageViewer done.		
	ADMA5013t: Application FNImageViewer installed successfully.		
	Application FNImageViewer installed successfully.		
	If you want to start the application, you must first save changes to the master configuration.		
	Save to Master Configuration		
	If you want to work with installed applications, then click Manage Applications.		
	Manage Applications		
	WebSphere Status ii ≤ Previous Next ≥ November 28, 2005 3:21:53 PM PKT ()		
	WebSphere Runtime Messages Clear All		
	Total All Messages: 900 💽 : <u>316 new, 316 total</u> 🔊 : <u>23 new, 23 total</u> 🔃 : <u>561 new, 561 total</u>		
	Preferences		
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9. Click Save to Master Configuration. The following screen appears:

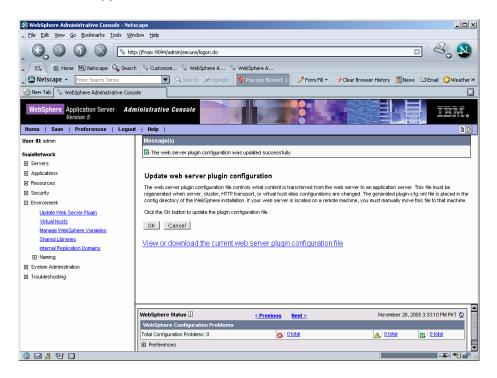
🔊 WebSphere Administrative Console - Net:				
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Netscape - Enter Search Terms	💌 🔍 Search 🖉 Highlight 🛛 🕺 Pop-Ups Blocked: 1 📝 Form Fill 👻 🧭 Clear Browser History 👼 News 🖙 Email 👙 Weather »			
New Tab	icle 🛛			
Version 5	ninistrative Console			
Home Save Preferences Logou	t Help DD			
User ID: admin	Message(s)			
fnaixNetwork	A-Changes have been made to your local configuration. Click Save to apply changes to the master configuration.			
	The server may need to be restarted for these changes to take effect.			
Applications				
Enterprise Applications	Enterprise Applications >			
Install New Application	Save			
Resources	Save your workspace changes to the master configuration			
E Security				
Environment	Save to Master Configuration			
System Administration	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work			
Troubleshooting	again using the master repository configuration. Click the Cancel button to continue working with your changes.			
	Total changed documents: 10			
	View items with changes			
	Synchronize changes with Nodes			
	Save Discard Cancel			
	WebSphere Status I < Previous Next > November 28, 2005 3:21:53 PM PKT C			
	WebSphere Runtime Messages Clear All Total All Messages:900 3:316 new, 318 total			
	Contract All Messages: 900 Contract All Messages: 900			
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10. Enable the **Synchronize Changes with Nodes** check box. Click **Save** to complete the deployment of FileNet Image Viewer. The following screen appears:

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	- : //fnaix:9094/admin/secure/logon.do			
Ch, A Home My Netscape Search Search	1 🛇 Customize 🛇 WebSphere A Q Search SHighlight OPp-Ups Blocked: 1 SForm	n Fil 👻 🥒 Clear Browser History 👼 News 🖂 Email 🔅 Weather »		
🕘 New Tab 🗘 Loading				
WebSphere Application Server Administrative Console				
User ID: admin	Message(s)			
fnaixNetwork ⊞ Servers ⊟ Applications	Application FNImageViewer on server ISRAServer1 and node fnaix started Application FNImageViewer on server ISRAServer2 and node fnaix started			
Enterprise Applications Install New Application	Enterprise Applications A list of installed applications. A single application can be deployed onto multip	vie servers. []		
 Security Environment System Administration 	Total:6 ⊞ Filter ⊞ Preferences			
Troubleshooting	Start Stop Install Uninstall Update Export			
	□ Name ≎	Status ♀ <u>⇔</u>		
	FNImageViewer	⇒		
	ISRA Sample	<u>م</u>		
	StressTool	\$		
	WebSphere Status 1 <u>< Previous</u> <u>Next ></u>	November 28, 2005 3:23:54 PM PKT 👲		
	WebSphere Configuration Problems Total Configuration Problems :0			
	Preferences			
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11. Click Applications > Enterprise Applications. Check the FNImageViewer check box and click Start to complete the deployment of FileNet Image Viewer.

- **Note FNImageViewer.ear** is located under the sample subfolder in the ISRA installation directory. FileNet Image Viewer files (FNImageViewer.jar) and FileNet Image Viewer documentation is located in the FNImageViewer subfolder in the ISRA installation directory.
- **12.** Click **Environment** -> **Update Web Server Plugin**. The following screen appears:



13. Click OK.

Session Affinity

Session Affinity is a mechanism, which allows a user to connect directly to the same Application Server unless and until the current session is invalidated or the application server instance, where the session started first is failed.

If this option is not enabled in an application server then, browser requests would be distributed across all application server instances in a cluster. The impact of requests being distributed in this fashion would depend on whether distributed or local sessions were in use.

In an environment using distributed sessions, the application server would make an out-of-process request to retrieve the session object from the copy of the session object stored either in memory in another application server or in a database. In an environment employing local sessions, the getSession () method call in the application code would result in the creation of a new session object, with the loss of any data previously stored in session for that client.

Session Affinity in WAS

Session affinity is enabled by default in WebSphere V5. In a clustered environment, WAS provides affinity to a server by appending the server ID to the session ID that is contained in the JSESSIONID cookie or URL rewrite. This information is used by the HTTP server plug-in to dispatch the request to the correct server.

The default plug-in generated by WAS

```
<ServerCluster CloneSeparatorChange="false"
LoadBalance="Round Robin" Name="ISRACLuster"
PostSizeLimit="-1" RemoveSpecialHeaders="true"
RetryInterval="60">
      <Server CloneID="10uclgec5" ConnectTimeout="0"</pre>
ExtendedHandshake="false" LoadBalanceWeight="2"
MaxConnections="-1" Name="fnaix_ISRAServer1"
WaitForContinue="false">
         <Transport Hostname="fnaix" Port="9081"
Protocol="http"/>
         <Transport Hostname="fnaix" Port="9444"
Protocol="https">
            <Property Name="keyring"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.kdb"/>
            <Property Name="stashfile"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.sth"/>
         </Transport>
      </Server>
      <Server CloneID="10uclgf31" ConnectTimeout="0"
ExtendedHandshake="false" LoadBalanceWeight="2"
MaxConnections="-1" Name="fnaix ISRAServer2"
WaitForContinue="false">
         <Transport Hostname="fnaix" Port="9082"
Protocol="http"/>
         <Transport Hostname="fnaix" Port="9445"
Protocol="https">
            <Property Name="keyring"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.kdb"/>
            <Property Name="stashfile"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.sth"/>
         </Transport>
      </Server>
      <PrimaryServers>
         <Server Name="fnaix ISRAServer1"/>
         <Server Name="fnaix_ISRAServer2"/>
      </PrimaryServers>
   </ServerCluster>
```

Disabling Session Affinity on WAS:

In order to disable the session affinity CloneID should be removed from each sever entry in pug-in as follows.

```
<ServerCluster CloneSeparatorChange="false"</pre>
            LoadBalance="Round Robin" Name="ISRACLuster"
            PostSizeLimit="-1" RemoveSpecialHeaders="true"
            RetryInterval="60">
      <Server CloneID="10uclgec5" ConnectTimeout="0"
ExtendedHandshake="false" LoadBalanceWeight="2"
MaxConnections="-1" Name="fnaix_ISRAServer1"
WaitForContinue="false">
         <Transport Hostname="fnaix" Port="9081"
Protocol="http"/>
         <Transport Hostname="fnaix" Port="9444"
Protocol="https">
            <Property Name="keyring"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.kdb"/>
            <Property Name="stashfile"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.sth"/>
         </Transport>
      </Server>
      <Server CloneID="10uclgf31" ConnectTimeout="0"
ExtendedHandshake="false" LoadBalanceWeight="2"
MaxConnections="-1" Name="fnaix_ISRAServer2"
WaitForContinue="false">
         <Transport Hostname="fnaix" Port="9082"
Protocol="http"/>
         <Transport Hostname="fnaix" Port="9445"
Protocol="https">
            <Property Name="keyring"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.kdb"/>
            <Property Name="stashfile"
Value="/software/WebSphere/DeploymentManager/etc/plugin-
key.sth"/>
         </Transport>
      </Server>
      <PrimaryServers>
         <Server Name="fnaix_ISRAServer1"/>
         <Server Name="fnaix ISRAServer2"/>
      </PrimaryServers>
   </ServerCluster>
```

WAS provides two persistence mechanisms for maintaining session state

- Database
- Memory to memory.

For replicating the session (memory to memory) across multiple application server instances following setup will be done on WAS.

1. Click Application servers -> <Server instance> ->Web container. The following screen appears:

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	http://fnaix:9094/admin/secure/logon.do		
🖌 🖾 Home 🔤 Netscape 🔍 :	Search 🛇 Customize 🛇 WebSphere A	V WebSphere A	
Netscape - Enter Search Terms	🔻 🔍 Search 🖋 Highligh	t 🕺 Pop-Ups Blocked: 1 🥒 Form Fill 👻 🖉	🖌 Clear Browser History 🛛 👼 News 🗠 Email 🔅 Weather
🕘 New Tab 🔇 📎 WebSphere Administrative	: Console		
WebSphere. Application Server Version 5 Home Save Preferences Li	Administrative Console		
User ID: admin	Application Servers > AixWeb1 > W	/eb Container >	
fnaixNetwork	Session Management		
Servers	Session manager configuration proper	rties allow you to control the behavior of HTTP ses	sion support i
Application Servers			
JMS Servers	Configuration		
Clusters	General Properties		
Cluster Topology	Session tracking mechanism:		Specify a mechanism for HTTP session
Applications	acaster fracking mechanism.	Enable SSL ID tracking	management.
Resources		Enable Cookies	
		Enable URL Rewriting	
 Environment 		Enable protocol switch rewriting	
System Administration			
Troubleshooting	Maximum in-memory session count:	1000 sessions	Specifies the maximum number of sessions to maintain in memory.
	Overflow:	Allow overflow	Whether to allow the number of sessions in memory to exceed the value specified by Max In Memory Session Count property. This is valid only in non-persistent sessions mode.
	Session timeout:		i Specifies how long a session is allowed to
	WebSphere Status 1	<pre><previous next=""></previous></pre>	December 1, 2005 5:46:01 PM PKT 👲
	WebSphere Configuration Problem		
	Total Configuration Problems :0	() : <u>O total</u>	A: O total D. : O total
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2. Click Distributed Environment Settings.

WebSphere Administrative Console - Netscape File Edit View Go Bookmarks Tools Window Help					
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Netscape - Enter Search Terms	 Q Search Highlight OPop-Ups Block 	ed: 1 🧳 Form Fill 👻 🥒 Clea	ar Browser History 👼 News 🖂 Email 🔅 Weather »		
🕘 New Tab 🛇 WebSphere Administrative Cons	ble				
WebSphere Application Server Adv Version 5					
Home Save Preferences Logou			DD		
User ID: admin	Application Servers > AixWeb1 > Web Container > Sess Distributed Environment Settings	ion Management >			
fnaixHetwork Gervers	Specify a type for saving session in a distributed environment	+ 1			
Application Servers					
JMS Servers	Configuration				
Clusters	General Properties				
Cluster Topology	Distributed Sessions C None		I Specify a type for saving session in a		
Applications Resources	C None C Database		distributed environment.		
Resources Recurity	Database Memory to Memory				
Environment	Memory to Memor	<u>y Replication</u>			
	Apply OK Reset Cancel				
Troubleshooting					
	Additional Properties				
	Custom Tuning Parameters Specify tuning parameters in a	distributed environment			
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3. Enable **Memory to Memory Replication** radio button and click on the same link. The following screen appears:

File Edit: yiew Go Bookmarks Tools: Window Help Image: Second Se
New Tab WebSphere Administrative Console WebSphere Administrative Console WebSphere Administrative Console WebSphere Sphere Administrative Console WebSphere Adminitere WebSphere Administrative Console WebSp
User ID: admin Application Servers > AixWeb1 > Web Container > Session Management > Distributed Environment Settings > Internal Messaging Configuring Memory to Memory session replication. []
AddS Servers Configuration Outlers General Properties Outlers Replication: Caster Toxology Replication: Provisions AX_Counter Toxology Security Replication: Security Replicators: AM/Veb2 Listen to particino Dis: System Administration Listen to particino Dis: Troubleshooting C Select replicator from another domain
Port : Port : Po

4. Select the replicator and click **Apply** and then click **OK**.

WebSphere Administrative Console - Netscape				
Ele Edit Yew Go Bookmarks Iools Window Help				
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Netscape - Enter Search Terms	💌 🔍 Search 🖋 Highlight 🛛 🕺 Pop	-Ups Blocked: 1 🧳 Form Fill 👻 🥖	Clear Browser History 👼 News 🖾 Email 🔅 Weather »	
📔 New Tab 🛇 WebSphere Administrative Con:	ole			
WebSphere Application Server Add Version 5				
User ID: admin	Application Servers > AixWeb1 > Web Contain	er > Session Management >		
fnaixNetwork	Distributed Environment Settings			
Servers	Specify a type for saving session in a distributed	environment. 🚺		
Application Servers JMS Servers	Configuration			
Clusters	General Properties			
Cluster Topology El Applications	Distributed Sessions C None		 Specify a type for saving session in a distributed environment. 	
Resources	C Databa	se	cistributed environment.	
Security	Memor	y to Memory Replication		
Environment Environment				
System Administration	Apply OK Reset Cancel			
Troubleshooting	Additional Properties			
	Custom Tuning Parameters Specify tuning parar	neters in a distributed environment		
	WebSphere Status	< Previous Next >	December 1, 2005 5:46:01 PM PKT 🗘	
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- 5. Click **Custom Tuning Parameters** link. The following screen appears:
- 🔕 WebSphere Administrative Console Netscape - 🗆 🗵 Eile Edit View Go Bookmarks Tools Window Help S S Attp://fnaix:9094/admin/secure/logon.do o 💐 🔊 🖂 🖌 🐔 Home 🔤 Netscape 🔍 Search 🛇 Custom Netscape - Enter Search Terms 🔍 🔍 Se 🖉 Hiahliahi 🥜 Form Fill 👻 🕙 New Tab 🔇 📎 WebSphere Administrative Cor WebSphere. Application Server Administrative Console IBM, Home | Save | Preferences | Logout | Help | Tuning Parameters User ID: admin Session Manager provides various tuning options for sion data in a distributed environment. 👔 fnaixNetwork E Servers Configuration Application Servers General Propert JMS Servers Clusters Tuning level: The Session Manager provides certain predefined settings that affect performance. \mathbb{C} Very high (optimize for performance) Cluster Topology Write frequency Time based: 300 seconds Write contents Only updated attributes Schedule sessions cleanup: true Applications C High White frequency Time based: 300 seconds White contents All session attributes Schedule sessions cleanup: false Environment System Administration Troubleshooting C Medium Write frequency End of servlet service Write contents Only updated attributes Schedule sessions cleanup; false Low (optimize for failover) Write frequency End of servlet service WebSphere Status December 13, 2005 3:41:38 PM PKT 🖏 < Previous Next > WebSphere Runtime Me ssages Clear All C : 259 new, 259 total (1): 482 new, 482 total 1 : 474 new, 474 total Total All Messages:1215 Preferenc ▼ 🔊 Q#
- 6. Select Low (optimize for failover) radio button and click Apply and then click OK. A message, as shown in the screen below, is displayed:

WebSphere Administrative Console - Netscape File Edit View Go Bookmarks Tools Window Help					
🔾 📀 💿 😒 🔊 http://max:9094/admn/secure/logon.do					
🔺 / 🖽 🖌 Home 🔤 Netscape 🔍 Search					
Netscape - Enter Search Terms	💽 🔍 Search 🖋 Highlight 🛛 🕺 Pop-Ups Blocked: 1 🛛 🥜 Form Fill	▼ 🖉 Clear Browser History 👼 News 🖾 Email 🔅 Weather ≫			
📔 New Tab 🛛 🛇 WebSphere Administrative Consi	e				
WebSphere Application Server Adm Version 5					
	Help				
User ID: sohih Traidictivor K Servers Application Servers Quiters Quiters Quiter Toodoay Quiter Toodoay Applications P Resources Security E Servironment System Administration Troubleshooting	Message(6)				
	Apply OK Reset Cancel				
	Additional Droportion				
		A			
	WebSphere Status i <u>< Previous</u> <u>Hext ></u>	December 13, 2005 3:41:38 PM PKT 👲			
	WebSphere Runtime Messages Total All Messages:1215 O: 259 new, 259 total Image: Preferences	210tal Clear All			

7. Click the **Save** link in the **Messages** box. The following screen appears:

🔊 WebSphere Administrative Console - Nets	scape			
File Edit View Go Bookmarks Tools Win	dow Help			
0, 0 0 0 ktp://fnax::9094/admin/secure/logon.do				
🔺 / 🖽 🖌 🏦 Home 🔤 Netscape 🔍 Search	n 🛇 Customize			
Netscape - Enter Search Terms	🔽 🔍 Search 🌶 Highlight 🛛 🕺 Pop-Ups Blacked: 1 🧳 Form Fill 👻 🥜 Clear Browser History 🗒 News 🖾 Email 🔅 Weather »			
😢 New Tab 🛇 WebSphere Administrative Cons	ole			
Version 5	ninistrative Console			
Home Save Preferences Logour	t Help BD			
User ID: admin	Message(s)			
fnaixlletwork	A Changes have been made to your local configuration. Click Save to apply changes to the master configuration.			
Servers	The server may need to be restarted for these changes to take effect.			
Application Servers				
JMS Servers	Application Servers > AixWeb1 > Web Container > Session Management > Distributed Environment Settings >			
Clusters	Save			
Cluster Topology	Save your workspace changes to the master configuration			
Applications				
Resources	Save to Master Configuration			
Security	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work			
Environment	again using the master repository configuration. Click the Cancel button to continue working with your changes.			
System Administration	Total changed documents: 1			
Troubleshooting	View items with changes			
	Synchronize changes with Nodes			
	Save Discard Cancel			
	WebSphere Status 🗓 <u> </u>			
	WebSphere Runtime Messages			
	Total All Messages: 1215 💿 : 259 new, 259 total 💽 : 482 new, 482 total			
	Preferences			
S 92				

8. Enable the Synchronize Changes with Nodes check box and click Save button.

Note The process should be repeated for all the cluster members to maintain the session state.

Testing the Sample Application

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

 Open a Web browser and enter the URL: http://<server:port>/context_root.

The Web application context_root is case sensitive. On a WebSphere server, the default port number is 9080. The default context_root of the Sample Application is ISRA.

SISRA 3.2.1 Sample Application - Netscape				
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New Tab 🛇 ISRA 3.2.1 Sample Application				
FILENET	ISRA 3.2.1 Sample Application			
Search Y Browse Y Queu	e Maintenance 📕 Meta Data			
	Please Login to FileNet Library			
	Library : ISCF 💌			
	UserName :			
	Password : Login			
	LDAP Authentication			
Disclaimer:				
Disclarmer: This sample application is intended solely for illustrative purposes, and you should not expect this sample application to perform useful work, or to be used for production				
deployment. This sample application is to be used strictly as reference material.				
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2. Enter a valid **Username** and **Password** for the configured IS (check configured ConnectionFactory for IS details) and click **Login**.

ISRA 3.2.1 Sample Application - Net File Edit View Go Bookmarks To		
	Se Interview Loop	- 4. 1
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Netscape - Enter Search Term		Browser History 👼 News 🛛 Email 🗘 Weather »
New Tab 🛇 ISRA 3.2.1 Sample Appl	ication	
FileNet	ISRA 3.2.1 Sample Application	😂 🕷 – Š.
Search Browse	Queue Maintenance Meta Data	· ·
-		User : SysAdmin Library : ISCF
Search for Documents :		
	select F_DOCNUMBER, F_DOCFORMAT, F_PAGES from FnDocument where F_DOCNUMBER > 1	
Query :		
	*	
Folder Name :		
Max Rows :	16 •	
	P Search Documents	
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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 parameter 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.
o <xml filename="" output=""></xml>	XML output filename, optional value.
l <log filename=""></log>	Log Filename to use, optional value.
li	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:

• 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

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
- LdapImpIClassString

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 Server 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_NovelINDSImpl.

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.

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

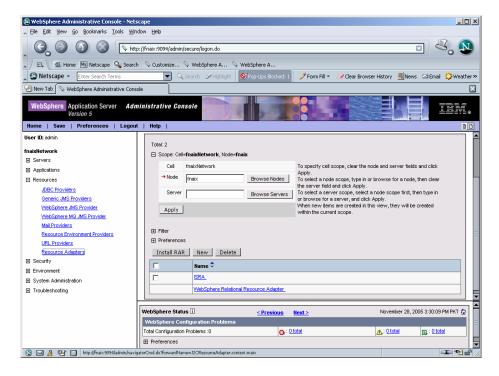
6 Undeployment

This section describes the undeployment procedure for ISRA and the Sample Application from the WebSphere Server.

Undeployment of ISRA in a Standalone Environment

To undeploy ISRA using the Administrative Console:

 Click Resources > Resource Adapters. The following screen appears:



2. Enable the ISRA check box. Click **Delete.** A message, as shown in the screen below, is displayed:

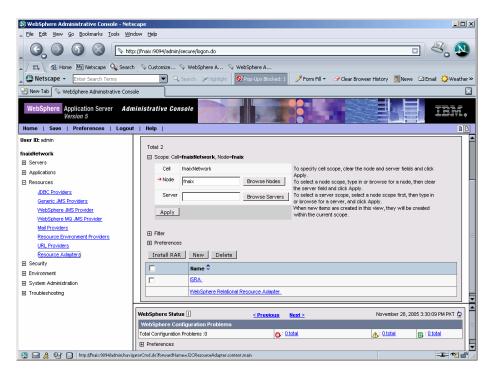
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User ID: admin Fnaktetwork Servers Applications Resources <u>JBC: Providers</u> <u>Generic_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>WebSphere_JMS: Provider</u> <u>BI: Providers</u> <u>UBL: Providers</u> <u>UBL: Providers</u> <u>Secury</u> System Administration <u>Di: Troubleshooting</u>		In for these changes to take effect richive file containing code that ing and PeopleSoft. This resource and one type of backend system (BS configuration properties that are de leefinaix ste <u>< Previous</u> Kext ns	lements a library for connecting with plor can be supplied by a third party but it can support meny different con fined in the J2C specification and set ≥ Nor	some EIS (Enterprise Information vendor other than EM. A single injurations for connections to that by the vendor who supplies the vendor who supplies the vendor 28, 2005 3:30:09 PM PKT
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3. Click the Save link in the Messages box.

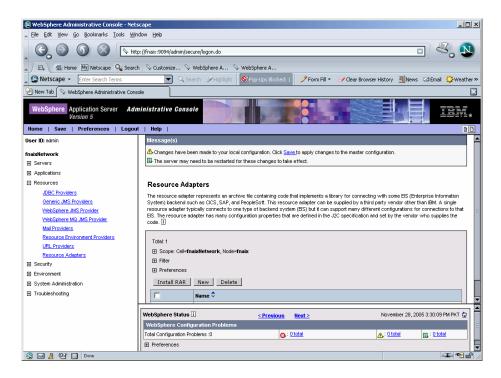
Undeployment of ISRA in a Clustered Environment

To undeploy ISRA using the Administrative Console:

1. Click **Resources > Resource Adapters**. The following screen appears:



2. Enable the **ISRA** check box. Click **Delete.** A message, as shown in the screen below, is displayed:



3. Click the Save link in the Messages box.

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Generic JMS Providers	Save your workspace changes to the master configuration			
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WebSphere MQ JMS Provider	Save to Master Configuration	Save to Master Configuration		
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4. Enable Synchronize Changes with Nodes check box and click Save.

Undeployment of the Sample Application in a Standalone Environment

Undeploying the ISRA Sample Application in a standalone environment on a WebSphere server will physically remove the Sample Application files.

1. Click **Applications > Enterprise Applications**. The following screen appears:

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2. Enable the ISRA_Sample check box. Click Stop. The following screen appears:

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3. Enable the **ISRA_Sample** check box once again, and click **Uninstall**. A message, as shown in the screen below, is displayed:

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4. Click the **Save** link in the **Message(s)** box. The following screen appears:

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	Save your workspace changes to the master configuration
Environment	Save to Master Configuration
System Administration	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work
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5. Enable Synchronize Changes with Nodes check box and click Save.

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

Undeployment of the Sample Application in a Clustered Environment

Undeploying the ISRA Sample Application in a clustered environment on a WebSphere server will physically remove the Sample Application files.

1. Click **Applications** > **Enterprise Applications**. The following screen appears:

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2. Enable the ISRA_Sample check box, and click Stop. The following screen appears:

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Troubleshooting	ISRA Sample	*	
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3. Enable the **ISRA_Sample** check box once again, and click **Uninstall**. The following screen appears.

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🕗 New Tab 🛛 🛇 WebSphere Administrative Cons	ole
Version 5	ninistrative Console
User ID: admin	Message(s)
fnaixNetwork	Changes have been made to your local configuration. Click Save to apply changes to the master configuration.
E Servers	The server may need to be restarted for these changes to take effect.
Applications	
Enterprise Applications	Enterprise Applications >
Install New Application	Save
Resources	Save your workspace changes to the master configuration
E Security	
Environment	Save to Master Configuration
System Administration Troubleshooting	Click the Save button to update the master repository with your changes. Click the Discard button to discard your changes and begin work again using the master repository configuration. Click the Cancel button to continue working with your changes.
	Total changed documents: 9
	Synchronize changes with Nodes
	Save Discard Cancel
	WebSphere Status I < <u>Previous</u> Next > November 28, 2005 3:32:10 PM PKT ()
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4. Click Save button.

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

7 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.

The steps to specify the alias in the hosts file are:

- 1. 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 system directory.
- **2.** Open the hosts file with a preferred text editor. If a hosts file does not exist, create a new file using a preferred text editor.
- 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. When specifying the domain-organization name, follow these rules:
 - 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 is FileNet, and its IP address is 123.45.6.78, the hosts file entry will be: 123.45.6.78 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

FileNet End User Software License

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, 3565 Harbor Blvd., Costa Mesa, CA 92626-1420, USA.

FileNet only licenses use of Software to end user. Nothing in this Notice or any written license agreement constitutes a sale of the software. FileNet reserves all rights.

Notice to U.S. Government of Restricted Rights.

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Consistent with 48 C.F.R. §12.212 or 48 C.F.R. §§227.7202-1 through 7202-4, as applicable, the Commercial Computer Software and Commercial Computer Software Documentation are being licensed to U.S. Government end users (a) only as Commercial Items, and (b) with only those rights as are granted to all other end users pursuant to the terms and conditions of the applicable software license agreement.

Contractor/manufacturer is: FileNet Corporation, 3565 Harbor Blvd., Costa Mesa, California 92626-1420, USA.

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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>
  <license>
    <license-required>false</license-required>
  </license>
  <resourceadapter>
    <managedconnectionfactory-
class>com.filenet.is.ra.spi.FN IS SpiManagedConnectionFactory</managedco
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-
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>
    <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-Exceptions and Warnings; 1-Info; 2-Debug
        Level</description>
     <config-property-name>RPCLogging</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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